

Environmental and Social Impact Assessment

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Uzbekistan: Samarkand 1 Solar PV and BESS Project

Appendixes – Part 10

Prepared by ACWA Power for the Asian Development Bank (ADB).

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Figure 49: Barneby star thistle (*Centaurea solstitialis*), alien weed



Figure 50: Bathurst burr, or cocklebur (*Xanthium spinosum*), alien weed



Figure 51: Knot grass (*Paspalum distichum*), alien weed



Figure 52: Water-clover (*Marsilea quadrifolia*), aquatic fern



Figure 53: Reed (*Phragmites australis*), a dominant of wetland and riparian vegetation



Figure 54: Licorice (*Glycyrrhiza glabra*), a dominant of riparian vegetation



Figure 55: Oleaster (*Elaeagnus angustifolia*), a common species of riparian vegetation



Figure 56: Sallowthorn or Sea Buckthorn (*Hippophae rhamnoides*), occurs sporadically in riparian scrub in the valley of Zeravshan River



Figure 57: Siberian salt-tree (*Caragana (Halimodendron) halodendron*), a common species of riparian vegetation



Figure 58: Caper (*Capparis spinosa*), a common species of secondary forb-grass communities on fallow lands

Annex C: Species check list

Table 2: Check list of flora

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|--|-----------------------|-----------|----------------|--|-----------------|------|-------|---|--|-----------|
| <i>Achillea arabica</i> (<i>Achillea biebersteinii</i>) | тысячелистник арабский (тысячелистник Биберштейна) | Yarrow | perennial | Asteraceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 5, 6, 21 | NE | none | Regional | native | O |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | тысячелистник Вильгельмса (тысячелистник керманский) | Yarrow | Perennial | Asteraceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 18, 19 | NE | none | Regional | native | O |
| <i>Alhagi pseudalhagi</i> | верблюжья колючка ложная | Camel Thorn | perennial | Fabaceae | all types | all | NE | none | Regional | native | C-R |
| <i>Allium drepanophyllum</i> | лук серполистый | | perennial | Amaryllidaceae | Dry grasslands | 6 | NE | none | Regional | native | R |
| <i>Allium griffithii</i> | лук Гриффита | | Perennial | Amaryllidaceae | Dry grasslands | 18, 19 | NE | none | Regional | native | R |
| <i>Alyssum desertorum</i> | бурачок пустынный | Desert madwort | annual | Brassicaceae | all types | 1-8, 10-21 | NE | none | Regional | native | O-F |
| <i>Aphanopleura capillifolia</i> | афаноплеура волосистостлистная | | annual | Apiaceae | Dry grasslands; Fallow lands | 2, 3, 4, 7 | NE | none | Regional | native | O-R |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|--------------------------------|---|--|-----------|-----------------|--|-------------------|------|-------|---|--|-----------|
| <i>Arenaria leptoclados</i> | песчанка тонковетвистая | Thyme-Leaved Sandwort | annual | Caryophyllaceae | Dry grasslands; Fallow lands | 1-8, 18, 19 | NE | none | Regional | native | O-R |
| <i>Artemisia serotina</i> | полынь поздняя | Sagebrush | perennial | Asteraceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 9 | NE | none | Regional | native | R |
| <i>Astragalus filicaulis</i> | астрагал тонкостебельный | | annual | Fabaceae | Dry grasslands; Fallow lands | 6, 16-19, 21 | NE | none | Regional | native | O-F |
| <i>Bromus tectorum</i> | костер кровельный | Wall Brome | annual | Poaceae | all types | 5, 6, 8, 9, 18-21 | NE | none | Transcontinental | native | O-F |
| <i>Capparis spinosa</i> | каперцы колючие | Caper | perennial | Capparaceae | Fallow lands; Boundary-strips, roadsides | 2, 5, 6, 8, 20 | LC | none | Regional | native | O-R |
| <i>Capsella bursa-pastoris</i> | пастушья сумка обыкновенная | Shepherd's -purse | annual | Brassicaceae | all types of modified habitats | 7, 9, 19-21 | LC | none | Transcontinental | alien | O-F |
| <i>Carduus arabicus</i> | чертополох беловатый, чертополох арабский | Italian plumeless thistle, Sheep thistle | annual | Asteraceae | all types of modified habitats | 9 | NE | none | Regional | native | O |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|--|---|-----------|---------------|--|-----------------|------|-------|---|--|-----------|
| <i>Carex pachystylis</i> | осока толстостолбиковая, ранг | Thick-stem sedge, desert sedge | perennial | Cyperaceae | Dry grasslands; Fallow lands | 1-8, 10-19, 21 | LC | none | Regional | native | A-O |
| <i>Carthamus oxyacanthus</i> | сафлор остроколючий | Wild safflower, Jeweled distaff thistle | annual | Asteraceae | all types of modified habitats; Dry grasslands | 9, 20 | NE | none | Regional | native | O |
| <i>Centaurea benedicta</i> (<i>Cnicus benedictus</i>) | василек благословенный (волчец благословенный) | Blessed thistle | annual | Asteraceae | all types of modified habitats | 5, 6 | NE | none | Transcontinental | alien | R |
| <i>Centaurea iberica</i> | василек иберийский | Iberian knapweed | biennial | Asteraceae | all types of modified habitats | 5, 6, 8, 9, 20 | NE | none | Transcontinental | alien | O-R |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | василек растопыренный | Squarrose knapweed | perennial | Asteraceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 6, 9, 20 | NE | none | Regional | native | O |
| <i>Ceratocephala orthoceras</i> | рогоглавник пряморогий | Curveseed butterwort | annual | Ranunculaceae | all types | 1-17, 21 | NE | none | Transcontinental | native | O-F |
| <i>Cichorium intybus</i> | цикорий обыкновенный | Chicory | perennial | Asteraceae | mesic modified habitats | 5, 9, 20, 21 | LC | none | Transcontinental | alien | O |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|--|-------------------------------|------------------|----------------|--|-----------------|------|-------|---|--|-----------|
| <i>Cirsium vulgare</i> | бодяк обыкновенный | Black Thistle, Common Thistle | biennial | Asteraceae | mesic modified habitats | 9 | NE | none | Transcontinental | native | R |
| <i>Colchicum robustum</i> (Merendera robusta) | безвременник крупный (мерендера крупная) | | perennial | Colchicaceae | Dry grasslands | 11, 12, 13 | NE | none | Regional | native | O-F |
| <i>Convolvulus arvensis</i> | вьюнок полевой | Bindweed | Perennial, liana | Convolvulaceae | all types of modified habitats | 5, 6, 9, 20, 21 | NE | none | Transcontinental | alien | O-F |
| <i>Corydalis sewerzowii</i> | хохлатка Северцова | | perennial | Papaveraceae | Dry grasslands | 6 | NE | none | Regional | native | O |
| <i>Cousinia microcarpa</i> | кузиния мелкоплодная | | biennial | Asteraceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 5 | NE | none | Regional | native | O |
| <i>Cousinia resinosa</i> | кузиния смолистая | | perennial | Asteraceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 1-8, 10-19, 21 | NE | none | Regional | native | F-R |
| <i>Crocus korolkowii</i> | шафран Королькова | | perennial | Iridaceae | Dry grasslands | 6 | NE | none | Regional | native | O |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|---|---------------------------------------|-----------|--------------|---|----------------------|------|-------|---|--|-----------|
| <i>Cryptospora falcata</i> (<i>Cryptospora omissa</i>) | скрытосемянница а упущенная | | annual | Brassicaceae | Boundary-strips, roadsides | 19, 21 | NE | none | Regional | native | O |
| <i>Descurainia sophia</i> | дескурения София | Flaxweed Tansymustard, Flixweed | annual | Brassicaceae | all types of modified habitats | 9, 19-21 | NE | none | Transcontinental | native | O-F |
| <i>Draba verna</i> (<i>Erophila verna</i>) | крупка весенняя (веснянка весенняя) | Spring Draba | annual | Brassicaceae | Dry grasslands; Fallow lands; Boundary- strips, roadsides | 3-6, 8, 10-19, 21 | NE | none | Transcontinental | native | C-O |
| <i>Echium biebersteinii</i> | синяк Биберштейна | | biennial | Boraginaceae | Boundary- strips, roadsides | 9, 20 | NE | none | Regional | native | R |
| <i>Erodium cicutarium</i> | аистник обыкновенный | Common Storks Bill | annual | Geraniaceae | all types | all | NE | none | Transcontinental | native | O-F |
| <i>Eruca sativa</i> | эрука посевная (индау) | Rocket | annual | Brassicaceae | Arable lands; Fallow lands; Boundary- strips, roadsides | 15, 21 | NE | none | Transcontinental | alien | O |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|--|--------------------------|-----------------------|-----------|--------------|--|--------------------|------|-------|---|--|-----------|
| <i>Eryngium caeruleum</i> | синеголовник голубой | Sea Holly | biennial | Apiaceae | Fallow lands; Boundary-strips, roadsides | 9, 19 | NE | none | Regional | native | O-R |
| <i>Gagea chomutovae</i> | гусиный лук Хомутовой | | perennial | Liliaceae | Dry grasslands | 6 | NE | none | Regional | native | R |
| <i>Gagea graminifolia</i> | гусиный лук злаколистный | | perennial | Liliaceae | Dry grasslands; Fallow lands | 4 | NE | none | Regional | native | O |
| <i>Gagea graminifolia</i> | гусиный лук злаколистный | | perennial | Liliaceae | Dry grasslands; Fallow lands | 4, 6, 10-13, 15-19 | NE | none | Regional | native | O-R |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | гусиный лук стебельчатый | | perennial | Liliaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 16-19, 21 | NE | none | Regional | native | O-F |
| <i>Gagea olgae</i> | гусиный лук Ольги | | perennial | Liliaceae | Dry grasslands; Fallow lands | 1-6, 8, 10-19 | NE | none | Regional | native | C-O |
| <i>Gentiana olivieri</i> | горечавка Оливье | | perennial | Gentianaceae | Dry grasslands; Fallow lands | 4 | NE | none | Regional | native | O |
| <i>Gleditsia caspica</i> | гледичия каспийская | Caspian Locust | tree | Fabaceae | Boundary-strips, roadsides | 20 | EN | none | Regional | introduced, planted | R |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|--|--|---------------------------|-----------|-----------------|--|------------------|------|-------|---|--|-----------|
| Goldbachia torulosa | гольдбахия бугорчатая | | annual | Brassicaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 21 | NE | none | Regional | native | O |
| Haplophyllum versicolor | цельнолистник разноцветный | | perennial | Rutaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 5, 6, 8, 18, 19 | NE | none | Regional | native | O-R |
| Holosteum umbellatum | костенец зонтичный | Jagged Chickweed | annual | Caryophyllaceae | all types | 1-19, 21 | NE | none | Transcontinental | native | O-F |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | ячмень заячий | Wall Barley, Falce Barley | annual | Poaceae | all types | all except for 1 | LC | none | Regional | native | A-R |
| Hypocoum pendulum (Hypocoum parviflorum) | гипекоум мелкоцветковый (мачок мелкоцветковый) | | annual | Papaveraceae | Dry grasslands; Arable lands; Fallow lands; Boundary-strips, roadsides | 14-19, 21 | NE | none | Regional | native | O-R |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|--|--------------------------|-----------|---------------|--|-------------------|------|-------|---|--|-----------|
| <i>Ixiolirion tataricum</i> | иксиолирион татарский | | perennial | Ixioliriaceae | all types | 3-8, 10-19, 21 | NE | none | Regional | native | O-R |
| <i>Koelpinia linearis</i> | кельпиния линейная | | annual | Asteraceae | Dry grasslands; Arable lands; Fallow lands; Boundary-strips, roadsides | 5-8, 11-13, 16-19 | NE | none | Regional | native | O-R |
| <i>Lamium amplexicaule</i> | ясотка стеблеобъемлющая | Common Henbit | annual | Lamiaceae | all types of modified habitats | 6, 7, 9, 19, 20 | NE | none | Transcontinental | native | O-R |
| <i>Lepidium draba</i> (<i>Cardaria draba</i>) | клоповник крупковый (сердечница крупковая) | Heart-Pod Hoary Cress | perennial | Brassicaceae | Boundary-strips, roadsides | 21 | NE | none | Transcontinental | native | F |
| <i>Leptaleum filifolium</i> | лепталеум нителистный | | annual | Brassicaceae | Dry grasslands; Fallow lands | 11-14, 16-18 | NE | none | Regional | native | O-F |
| <i>Malus domestica</i> | яблоня домашняя | Apple | tree | Rosaceae | Gardens; Settlements | 9, 20 | NE | none | Transcontinental | introduced, planted | D |
| <i>Malva neglecta</i> | просвирник пренебреженный | Buttonweed, Dwarf Mallow | perennial | Malvaceae | all types of modified habitats | 8, 9, 20 | LC | none | Transcontinental | alien | O |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|---------------------------|-----------------------|-----------|-----------------|--|-------------------|------|-------|---|--|-----------|
| <i>Medicago monantha</i> (Trigonella geminiflora) | пажитник парноцветковый | | annual | Fabaceae | Dry grasslands; Arable lands; Fallow lands; Boundary-strips, roadsides | 1-5, 7, 10-19, 21 | NE | none | Regional | native | O-F |
| <i>Meniocus linifolius</i> | плоскоплодник льнолистный | | annual | Brassicaceae | Dry grasslands; Arable lands; Fallow lands; Boundary-strips, roadsides | 16-18, 19 | NE | none | Regional | native | O |
| <i>Minuartia meyeri</i> | минуарция Мейера | | annual | Caryophyllaceae | Dry grasslands; Fallow lands | 1, 2 | NE | none | Regional | native | R |
| <i>Nonea caspica</i> | нонея каспийская | | annual | Boraginaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 21 | NE | none | Regional | native | O |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---------------------------------|----------------------------|----------------------------|-----------|---------------|--|--------------------|------|-------|---|--|-----------|
| <i>Onopordum leptolepis</i> | татарник тонкочешуйчатый | | biennial | Asteraceae | all types of modified habitats | 5, 9, 20 | NE | none | Regional | native | O |
| <i>Papaver pavoninum</i> | мак павлиний | | annual | Papaveraceae | all types | 5-9, 14, 15, 17-21 | NE | none | Regional | native | O-R |
| <i>Parentucellia flaviflora</i> | парентучеллия желтоцветная | Yellow Broadleaf Glandweed | annual | Orobanchaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 19 | NE | none | Regional | native | O |
| <i>Peganum harmala</i> | гармала обыкновенная | African rue, Harmel | perennial | Nitrariaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 1-3, 5-8, 10-19 | NE | none | Regional | native | F-R |
| <i>Phlomis thapsoides</i> | зопник корвяковый | | perennial | Lamiaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 6, 18, 19 | NE | none | Regional | native | F-R |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|-----------------------|-----------------------|-----------|----------------|--|-----------------------|------|-------|---|--|-----------|
| <i>Phlomis labiosa</i> | фломоидес губастый | | perennial | Lamiaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 6, 18, 19 | NE | none | Regional | native | O-F |
| <i>Phragmites australis</i> | тростник южный | Common Reed | perennial | Poaceae | Canals and drainage channels | 19 | LC | none | Transcontinental | native | O |
| <i>Plantago lanceolata</i> | подорожник ланцетный | Ribwort Plantain | perennial | Plantaginaceae | all types | 2, 5, 6, 8, 9, 20 | LC | none | Transcontinental | native | O-F |
| <i>Poa bulbosa</i> | мятлик луковичный | Bulbous Bluegrass | perennial | Poaceae | all types | all | NE | none | Transcontinental | native | A-O |
| <i>Ranunculus sewerzowii</i> | лютик Северцова | | perennial | Ranunculaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 3-6, 8, 11-13, 16-19 | NE | none | Regional | native | O-F |
| <i>Rhaponticum repens</i> (Acroptilon repens) | горчак ползучий | Russian Knapweed | perennial | Asteraceae | Boundary-strips, roadsides | 6, 20 | NE | none | Transcontinental | native, quarantine weed | O-R |
| <i>Rosa persica</i> (Hulthemia persica) | хультемия персидская | Persian rose | subshrub | Rosaceae | Dry grasslands; Fallow lands; Boundary- | 4-6, 9, 10, 15, 19-21 | NE | none | Regional | native | O-F |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|---|---|-----------------------|-----------|--------------|--|-----------------|------|-------|---|--|-----------|
| | | | | | strips, roadsides | | | | | | |
| <i>Sedum aetnense</i> (<i>Sedum tetramerum</i>) | очиток этнинский (очиток четырехмерный) | | annual | Crassulaceae | Dry grasslands; Fallow lands | 1, 2, 3 | NE | none | Regional | native | O-F |
| <i>Sisymbrium altissimum</i> | гулявник высочайший | Jim Hill Mustard | annual | Brassicaceae | all types of modified habitats | 5, 6, 9, 19 | NE | none | Transcontinental | alien | O-F |
| <i>Sophora pachycarpa</i> | софора толстоплодная (вексибия толстоплодная) | | perennial | Fabaceae | Dry grasslands; Fallow lands; Boundary-strips, roadsides | 5, 6, 8, 9, 20 | NE | none | Regional | native | O-R |
| <i>Strigosella africana</i> | стригозелла африканская | African mustard | annual | Brassicaceae | all types | 5 | NE | none | Regional | alien | O-R |
| <i>Strigosella brevipes</i> | стригозелла коротконогая | | annual | Brassicaceae | Dry grasslands; Fallow lands | 11, 13 | NE | none | Regional | native | O-R |
| <i>Taraxacum monochlamydeum</i> | одуванчик однопокровный | | perennial | Asteraceae | all types | 3-8, 18, 19 | NE | none | Regional | native | F-R |

| Species | Common Name (Russian) | Common Name (English) | Life form | Family | Habitat type | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|-------------------------------|--------------------------|------------------------|-----------|------------|--|-----------------|------|-------|---|--|-----------|
| <i>Trigonella grandiflora</i> | пажитник крупноцветковый | | annual | Fabaceae | Arable lands; Fallow lands; Boundary-strips, roadsides | 19, 21 | LC | none | Regional | native | O |
| <i>Triticum aestivum</i> | пшеница мягкая | Bread Wheat | Annual | Poaceae | Arable lands | 21 | NE | none | Transcontinental | planted (agricultural crop) | D |
| <i>Turgenia latifolia</i> | тургеня широколистная | Broadleaf false carrot | annual | Apiaceae | Fallow lands | 5, 6 | NE | none | Regional | native | O-R |
| <i>Ulmus pumila</i> | вяз низкий, карагач | Siberian Elm | tree | Ulmaceae | Boundary-strips, roadsides; Settlements | 20 | LC | none | Regional | native, planted | R |
| <i>Xanthium spinosum</i> | дурнишник колючий | Bathurst burr | annual | Asteraceae | Fallow lands; Boundary-strips, roadsides | 5, 6, 8, 9, 20 | NE | none | Transcontinental | alien | O-R |
| <i>Ziziphora tenuior</i> | зизифора тонкая | | annual | Lamiaceae | Dry grasslands; Fallow lands | 5, 6 | NE | none | Regional | native | O-R |

Annex D: Check list of sample plots

Table 3: Check list of sample plots

| Species | Common Name (English) | Life form | Sample Plot No. | IUCN | UzRDB | Range (Endemic/ Regional/ Transcontinental) | Native status (native / alien / planted) | Abundance |
|--|--------------------------------|-----------|-----------------|------|-------|---|--|------------|
| Alhagi pseudalhagi | Camel Thorn | perennial | 1 | NE | none | Regional | native | Rare |
| Alyssum desertorum | Desert madwort | annual | 1 | NE | none | Regional | native | Occasional |
| Arenaria leptoclados | Thyme-Leaved Sandwort | annual | 1 | NE | none | Regional | native | Rare |
| Carex pachystylis | Thick-stem sedge, desert sedge | perennial | 1 | LC | none | Regional | native | Frequent |
| Ceratocephala orthoceras | Curveseed butterwort | annual | 1 | NE | none | Transcontinental | native | Occasional |
| Cousinia resinosa | | perennial | 1 | NE | none | Regional | native | Rare |
| Erodium cicutarium | Common Storks Bill | annual | 1 | NE | none | Transcontinental | native | Frequent |
| Gagea olgae | | perennial | 1 | NE | none | Regional | native | Common |
| Holosteum umbellatum | Jagged Chickweed | annual | 1 | NE | none | Transcontinental | native | Occasional |
| Medicago monantha (Trigonella geminiflora) | | annual | 1 | NE | none | Regional | native | Occasional |
| Minuartia meyeri | | annual | 1 | NE | none | Regional | native | Rare |
| Peganum harmala | African rue, Harmel | perennial | 1 | NE | none | Regional | native | Rare |
| Poa bulbosa | Bulbous Bluegrass | perennial | 1 | NE | none | Transcontinental | native | Common |
| Sedum aetnense (Sedum tetramerum) | | annual | 1 | NE | none | Regional | native | Frequent |
| Alhagi pseudalhagi | Camel Thorn | perennial | 2 | NE | none | Regional | native | Rare |

| | | | | | | | | |
|---|--------------------------------|-----------|---|----|------|------------------|--------|------------|
| <i>Alyssum desertorum</i> | Desert madwort | annual | 2 | NE | none | Regional | native | Occasional |
| <i>Aphanopleura capillifolia</i> | | annual | 2 | NE | none | Regional | native | Occasional |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | annual | 2 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 2 | LC | none | Regional | native | Frequent |
| <i>Capparis spinosa</i> | Caper | perennial | 2 | LC | none | Regional | native | Rare |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 2 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 2 | NE | none | Regional | native | Rare |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 2 | NE | none | Transcontinental | native | Frequent |
| <i>Gagea olgae</i> | | perennial | 2 | NE | none | Regional | native | Common |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 2 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 2 | LC | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 2 | NE | none | Regional | native | Occasional |
| <i>Minuartia meyeri</i> | | annual | 2 | NE | none | Regional | native | Rare |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 2 | NE | none | Regional | native | Occasional |
| <i>Plantago lanceolata</i> | Ribwort Plantain | perennial | 2 | LC | none | Transcontinental | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 2 | NE | none | Transcontinental | native | Common |
| <i>Sedum aetnense</i> (<i>Sedum tetramerum</i>) | | annual | 2 | NE | none | Regional | native | Frequent |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 3 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 3 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|---|----|------|------------------|--------|------------|
| <i>Aphanopleura capillifolia</i> | | annual | 3 | NE | none | Regional | native | Occasional |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | annual | 3 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 3 | LC | none | Regional | native | Frequent |
| <i>Ceratocephala orthoceras</i> | Curvseed butterwort | annual | 3 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 3 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 3 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 3 | NE | none | Transcontinental | native | Frequent |
| <i>Gagea olgae</i> | | perennial | 3 | NE | none | Regional | native | Frequent |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 3 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 3 | LC | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 3 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 3 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 3 | NE | none | Regional | native | Rare |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 3 | NE | none | Transcontinental | native | Common |
| <i>Ranunculus sewerzowii</i> | | perennial | 3 | NE | none | Regional | native | Occasional |
| <i>Sedum aetnense</i> (<i>Sedum tetramerum</i>) | | annual | 3 | NE | none | Regional | native | Occasional |
| <i>Taraxacum monochlamydeum</i> | | perennial | 3 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 4 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|---|----|------|------------------|--------|------------|
| <i>Alyssum desertorum</i> | Desert madwort | annual | 4 | NE | none | Regional | native | Occasional |
| <i>Aphanopleura capillifolia</i> | | annual | 4 | NE | none | Regional | native | Occasional |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | annual | 4 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 4 | LC | none | Regional | native | Common |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 4 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 4 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 4 | NE | none | Transcontinental | native | Frequent |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 4 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 4 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 4 | NE | none | Regional | native | Common |
| <i>Gentiana olivieri</i> | | perennial | 4 | NE | none | Regional | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 4 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 4 | LC | none | Regional | native | Rare |
| <i>Ixiolirion tataricum</i> | | perennial | 4 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 4 | NE | none | Regional | native | Frequent |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 4 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 4 | NE | none | Regional | native | Occasional |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 4 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|-----------------------|------------------|---|----|------|------------------|--------|------------|
| Taraxacum monochlamydeum | | perennial | 4 | NE | none | Regional | native | Occasional |
| Achillea arabica (Achillea biebersteinii) | Yarrow | perennial | 5 | NE | none | Regional | native | Occasional |
| Alhagi pseudalhagi | Camel Thorn | perennial | 5 | NE | none | Regional | native | Occasional |
| Alyssum desertorum | Desert madwort | annual | 5 | NE | none | Regional | native | Occasional |
| Arenaria leptoclados | Thyme-Leaved Sandwort | annual | 5 | NE | none | Regional | native | Occasional |
| Bromus tectorum | Wall Brome | annual | 5 | NE | none | Transcontinental | native | Frequent |
| Capparis spinosa | Caper | perennial | 5 | LC | none | Regional | native | Rare |
| Centaurea benedicta (Cnicus benedictus) | Blessed thistle | annual | 5 | NE | none | Transcontinental | alien | Rare |
| Centaurea iberica | Iberian knapweed | biennial | 5 | NE | none | Transcontinental | alien | Occasional |
| Ceratocephala orthoceras | Curveseed butterwort | annual | 5 | NE | none | Transcontinental | native | Occasional |
| Cichorium intybus | Chicory | perennial | 5 | LC | none | Transcontinental | alien | Occasional |
| Convolvulus arvensis | Bindweed | Perennial, liana | 5 | NE | none | Transcontinental | alien | Occasional |
| Cousinia microcarpa | | biennial | 5 | NE | none | Regional | native | Occasional |
| Cousinia resinosa | | perennial | 5 | NE | none | Regional | native | Frequent |
| Draba verna (Erophila verna) | Spring Draba | annual | 5 | NE | none | Transcontinental | native | Occasional |
| Erodium cicutarium | Common Storks Bill | annual | 5 | NE | none | Transcontinental | native | Occasional |
| Gagea olgae | | perennial | 5 | NE | none | Regional | native | Occasional |
| Haplophyllum versicolor | | perennial | 5 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|---------------------------|-----------|---|----|------|------------------|--------|------------|
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 5 | LC | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 5 | NE | none | Regional | native | Occasional |
| <i>Koeleria linearis</i> | | annual | 5 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 5 | NE | none | Regional | native | Occasional |
| <i>Onopordum leptolepis</i> | | biennial | 5 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 5 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 5 | NE | none | Regional | native | Rare |
| <i>Plantago lanceolata</i> | Ribwort Plantain | perennial | 5 | LC | none | Transcontinental | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 5 | NE | none | Transcontinental | native | Common |
| <i>Ranunculus sewerzowii</i> | | perennial | 5 | NE | none | Regional | native | Occasional |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 5 | NE | none | Regional | native | Occasional |
| <i>Sisymbrium altissimum</i> | Jim Hill Mustard | annual | 5 | NE | none | Transcontinental | alien | Occasional |
| <i>Sophora pachycarpa</i> | | perennial | 5 | NE | none | Regional | native | Occasional |
| <i>Strigosella africana</i> | African mustard | annual | 5 | NE | none | Regional | alien | Rare |
| <i>Taraxacum monochlamydeum</i> | | perennial | 5 | NE | none | Regional | native | Rare |
| <i>Turgenia latifolia</i> | Broadleaf false carrot | annual | 5 | NE | none | Regional | native | Occasional |
| <i>Xanthium spinosum</i> | Bathurst burr | annual | 5 | NE | none | Transcontinental | alien | Rare |
| <i>Ziziphora tenuior</i> | | annual | 5 | NE | none | Regional | native | Occasional |
| <i>Achillea arabica</i> (<i>Achillea biebersteinii</i>) | Yarrow | perennial | 6 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|--|--------------------------------|------------------|---|----|------|------------------|--------|------------|
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Allium drepanophyllum</i> | | perennial | 6 | NE | none | Regional | native | Rare |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 6 | NE | none | Regional | native | Occasional |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | annual | 6 | NE | none | Regional | native | Occasional |
| <i>Astragalus filicaulis</i> | | annual | 6 | NE | none | Regional | native | Occasional |
| <i>Bromus tectorum</i> | Wall Brome | annual | 6 | NE | none | Transcontinental | native | Frequent |
| <i>Capparis spinosa</i> | Caper | perennial | 6 | LC | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 6 | LC | none | Regional | native | Abundant |
| <i>Centaurea benedicta</i> (Cnicus benedictus) | Blessed thistle | annual | 6 | NE | none | Transcontinental | alien | Rare |
| <i>Centaurea iberica</i> | Iberian knapweed | biennial | 6 | NE | none | Transcontinental | alien | Occasional |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | Squarrose knapweed | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Convolvulus arvensis</i> | Bindweed | Perennial, liana | 6 | NE | none | Transcontinental | alien | Occasional |
| <i>Corydalis sewerzowii</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Cousinia microcarpa</i> | | biennial | 6 | NE | none | Regional | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Crocus korolkowii</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 6 | NE | none | Transcontinental | native | Frequent |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 6 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea chomutovae</i> | | perennial | 6 | NE | none | Regional | native | Rare |
| <i>Gagea graminifolia</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 6 | NE | none | Regional | native | Frequent |

| | | | | | | | | |
|---|---------------------------|-----------|---|----|------|------------------|-------------------------|------------|
| <i>Haplophyllum versicolor</i> | | perennial | 6 | NE | none | Regional | native | Rare |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 6 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 6 | LC | none | Regional | native | Frequent |
| <i>Ixiolirion tataricum</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 6 | NE | none | Regional | native | Occasional |
| <i>Lamium amplexicaule</i> | Common Henbit | annual | 6 | NE | none | Transcontinental | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 6 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 6 | NE | none | Regional | native | Rare |
| <i>Phlomis thapsoides</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Phlomis labiosa</i> | | perennial | 6 | NE | none | Regional | native | Frequent |
| <i>Plantago lanceolata</i> | Ribwort Plantain | perennial | 6 | LC | none | Transcontinental | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 6 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Rhaponticum repens</i> (<i>Acroptilon repens</i>) | Russian Knapweed | perennial | 6 | NE | none | Transcontinental | native, quarantine weed | Rare |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 6 | NE | none | Regional | native | Occasional |
| <i>Sisymbrium altissimum</i> | Jim Hill Mustard | annual | 6 | NE | none | Transcontinental | alien | Frequent |
| <i>Sophora pachycarpa</i> | | perennial | 6 | NE | none | Regional | native | Occasional |
| <i>Strigosella africana</i> | African mustard | annual | 6 | NE | none | Regional | alien | Rare |
| <i>Taraxacum monochlamydeum</i> | | perennial | 6 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|---|----|------|------------------|--------|------------|
| <i>Turgenia latifolia</i> | Broadleaf false carrot | annual | 6 | NE | none | Regional | native | Rare |
| <i>Xanthium spinosum</i> | Bathurst burr | annual | 6 | NE | none | Transcontinental | alien | Occasional |
| <i>Ziziphora tenuior</i> | | annual | 6 | NE | none | Regional | native | Rare |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 7 | NE | none | Regional | native | Rare |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 7 | NE | none | Regional | native | Occasional |
| <i>Aphanopleura capillifolia</i> | | annual | 7 | NE | none | Regional | native | Rare |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | annual | 7 | NE | none | Regional | native | Rare |
| <i>Capsella bursa-pastoris</i> | Shepherd's-purse | annual | 7 | LC | none | Transcontinental | alien | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 7 | LC | none | Regional | native | Occasional |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 7 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 7 | NE | none | Regional | native | Rare |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 7 | NE | none | Transcontinental | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 7 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 7 | LC | none | Regional | native | Rare |
| <i>Ixiolirion tataricum</i> | | perennial | 7 | NE | none | Regional | native | Rare |
| <i>Koelpinia linearis</i> | | annual | 7 | NE | none | Regional | native | Rare |
| <i>Lamium amplexicaule</i> | Common Henbit | annual | 7 | NE | none | Transcontinental | native | Rare |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 7 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 7 | NE | none | Regional | native | Rare |

| | | | | | | | | |
|---|--------------------------------|-----------|---|----|------|------------------|--------|------------|
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 7 | NE | none | Regional | native | Rare |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 7 | NE | none | Transcontinental | native | Occasional |
| <i>Taraxacum monochlamydeum</i> | | perennial | 7 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 8 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 8 | NE | none | Regional | native | Frequent |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | annual | 8 | NE | none | Regional | native | Occasional |
| <i>Bromus tectorum</i> | Wall Brome | annual | 8 | NE | none | Transcontinental | native | Frequent |
| <i>Capparis spinosa</i> | Caper | perennial | 8 | LC | none | Regional | native | Rare |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 8 | LC | none | Regional | native | Abundant |
| <i>Centaurea iberica</i> | Iberian knapweed | biennial | 8 | NE | none | Transcontinental | alien | Rare |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 8 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 8 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 8 | NE | none | Transcontinental | native | Common |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 8 | NE | none | Transcontinental | native | Frequent |
| <i>Gagea olgae</i> | | perennial | 8 | NE | none | Regional | native | Frequent |
| <i>Haplophyllum versicolor</i> | | perennial | 8 | NE | none | Regional | native | Rare |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 8 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 8 | LC | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 8 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 8 | NE | none | Regional | native | Rare |

| | | | | | | | | |
|--|--|-----------|---|----|------|------------------|--------|------------|
| <i>Malva neglecta</i> | Buttonweed, Dwarf Mallow | perennial | 8 | LC | none | Transcontinental | alien | Occasional |
| <i>Papaver pavoninum</i> | | annual | 8 | NE | none | Regional | native | Rare |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 8 | NE | none | Regional | native | Rare |
| <i>Plantago lanceolata</i> | Ribwort Plantain | perennial | 8 | LC | none | Transcontinental | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 8 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 8 | NE | none | Regional | native | Occasional |
| <i>Sophora pachycarpa</i> | | perennial | 8 | NE | none | Regional | native | Occasional |
| <i>Strigosella africana</i> | African mustard | annual | 8 | NE | none | Regional | alien | Rare |
| <i>Taraxacum monochlamydeum</i> | | perennial | 8 | NE | none | Regional | native | Occasional |
| <i>Xanthium spinosum</i> | Bathurst burr | annual | 8 | NE | none | Transcontinental | alien | Rare |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 9 | NE | none | Regional | native | Occasional |
| <i>Artemisia serotina</i> | Sagebrush | perennial | 9 | NE | none | Regional | native | Rare |
| <i>Bromus tectorum</i> | Wall Brome | annual | 9 | NE | none | Transcontinental | native | Occasional |
| <i>Capsella bursa-pastoris</i> | Shepherd's-purse | annual | 9 | LC | none | Transcontinental | alien | Occasional |
| <i>Carduus arabicus</i> | Italian plumeless thistle, Sheep thistle | annual | 9 | NE | none | Regional | native | Occasional |
| <i>Carthamus oxyacanthus</i> | Wild safflower, Jeweled distaff thistle | annual | 9 | NE | none | Regional | native | Occasional |
| <i>Centaurea iberica</i> | Iberian knapweed | biennial | 9 | NE | none | Transcontinental | alien | Rare |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | Squarrose knapweed | perennial | 9 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|--|---------------------------------------|---------------------|---|----|------|------------------|------------------------|------------|
| <i>Ceratocephala orthoceras</i> | Curvseed butterwort | annual | 9 | NE | none | Transcontinental | native | Frequent |
| <i>Cichorium intybus</i> | Chicory | perennial | 9 | LC | none | Transcontinental | alien | Occasional |
| <i>Cirsium vulgare</i> | Black Thistle, Common Thistle | biennial | 9 | NE | none | Transcontinental | native | Rare |
| <i>Convolvulus arvensis</i> | Bindweed | Perennial, liana | 9 | NE | none | Transcontinental | alien | Frequent |
| <i>Descurainia sophia</i> | Flaxweed Tansymustard, Flixweed | annual | 9 | NE | none | Transcontinental | native | Occasional |
| <i>Echium biebersteinii</i> | | biennial | 9 | NE | none | Regional | native | Rare |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 9 | NE | none | Transcontinental | native | Frequent |
| <i>Eryngium caeruleum</i> | Sea Holly | biennial | 9 | NE | none | Regional | native | Rare |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 9 | NE | none | Transcontinental | native | Frequent |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 9 | LC | none | Regional | native | Abundant |
| <i>Lamium amplexicaule</i> | Common Henbit | annual | 9 | NE | none | Transcontinental | native | Occasional |
| <i>Malus domestica</i> | Apple | tree | 9 | NE | none | Transcontinental | introduced, planted | Dominant |
| <i>Malva neglecta</i> | Buttonweed, Dwarf Mallow | perennial | 9 | LC | none | Transcontinental | alien | Occasional |
| <i>Onopordum leptolepis</i> | | biennial | 9 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 9 | NE | none | Regional | native | Occasional |
| <i>Plantago lanceolata</i> | Ribwort Plantain | perennial | 9 | LC | none | Transcontinental | native | Frequent |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 9 | NE | none | Transcontinental | native | Frequent |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 9 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|--|-----------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Sisymbrium altissimum</i> | Jim Hill Mustard | annual | 9 | NE | none | Transcontinental | alien | Occasional |
| <i>Sophora pachycarpa</i> | | perennial | 9 | NE | none | Regional | native | Rare |
| <i>Xanthium spinosum</i> | Bathurst burr | annual | 9 | NE | none | Transcontinental | alien | Rare |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 10 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 10 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 10 | LC | none | Regional | native | Common |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 10 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 10 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 10 | NE | none | Transcontinental | native | Frequent |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 10 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 10 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 10 | NE | none | Regional | native | Frequent |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 10 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 10 | LC | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 10 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 10 | NE | none | Regional | native | Frequent |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 10 | NE | none | Regional | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 10 | NE | none | Transcontinental | native | Common |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 10 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 11 | NE | none | Regional | native | Frequent |

| | | | | | | | | |
|--|-----------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Alyssum desertorum</i> | Desert madwort | annual | 11 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 11 | LC | none | Regional | native | Abundant |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 11 | NE | none | Transcontinental | native | Occasional |
| <i>Colchicum robustum</i> (<i>Merendera robusta</i>) | | perennial | 11 | NE | none | Regional | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 11 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 11 | NE | none | Transcontinental | native | Frequent |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 11 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 11 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 11 | NE | none | Regional | native | Common |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 11 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 11 | LC | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 11 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 11 | NE | none | Regional | native | Rare |
| <i>Leptaleum filifolium</i> | | annual | 11 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 11 | NE | none | Regional | native | Frequent |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 11 | NE | none | Regional | native | Rare |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 11 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 11 | NE | none | Regional | native | Occasional |
| <i>Strigosella brevipes</i> | | annual | 11 | NE | none | Regional | native | Rare |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 12 | NE | none | Regional | native | Occasional |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 12 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 12 | LC | none | Regional | native | Abundant |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 12 | NE | none | Transcontinental | native | Occasional |
| <i>Colchicum robustum</i> (<i>Merendera robusta</i>) | | perennial | 12 | NE | none | Regional | native | Frequent |
| <i>Cousinia resinosa</i> | | perennial | 12 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 12 | NE | none | Transcontinental | native | Common |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 12 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 12 | NE | none | Regional | native | Rare |
| <i>Gagea olgae</i> | | perennial | 12 | NE | none | Regional | native | Frequent |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 12 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 12 | LC | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 12 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 12 | NE | none | Regional | native | Occasional |
| <i>Leptaleum filifolium</i> | | annual | 12 | NE | none | Regional | native | Frequent |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 12 | NE | none | Regional | native | Frequent |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 12 | NE | none | Regional | native | Rare |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 12 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 12 | NE | none | Regional | native | Frequent |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 13 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 13 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 13 | LC | none | Regional | native | Abundant |

| | | | | | | | | |
|--|-----------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Ceratocephala orthoceras</i> | Curvseed butterwort | annual | 13 | NE | none | Transcontinental | native | Occasional |
| <i>Colchicum robustum</i> (<i>Merendera robusta</i>) | | perennial | 13 | NE | none | Regional | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 13 | NE | none | Regional | native | Rare |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 13 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 13 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 13 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 13 | NE | none | Regional | native | Common |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 13 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 13 | LC | none | Regional | native | Frequent |
| <i>Ixiolirion tataricum</i> | | perennial | 13 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 13 | NE | none | Regional | native | Occasional |
| <i>Leptaleum filifolium</i> | | annual | 13 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 13 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 13 | NE | none | Regional | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 13 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 13 | NE | none | Regional | native | Occasional |
| <i>Strigosella brevipes</i> | | annual | 13 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 14 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 14 | NE | none | Regional | native | Frequent |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 14 | LC | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 14 | NE | none | Transcontinental | native | Frequent |
| <i>Cousinia resinosa</i> | | perennial | 14 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 14 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 14 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 14 | NE | none | Regional | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 14 | NE | none | Transcontinental | native | Frequent |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 14 | LC | none | Regional | native | Occasional |
| <i>Hypocoum pendulum</i> (<i>Hypocoum parviflorum</i>) | | annual | 14 | NE | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 14 | NE | none | Regional | native | Occasional |
| <i>Leptaleum filifolium</i> | | annual | 14 | NE | none | Regional | native | Frequent |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 14 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 14 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 14 | NE | none | Regional | native | Rare |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 14 | NE | none | Transcontinental | native | Frequent |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 15 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 15 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 15 | LC | none | Regional | native | Frequent |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 15 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 15 | NE | none | Regional | native | Rare |

| | | | | | | | | |
|---|--------------------------------|-----------|----|----|------|------------------|-----------------------------|------------|
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 15 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 15 | NE | none | Transcontinental | native | Occasional |
| <i>Eruca sativa</i> | Rocket | annual | 15 | NE | none | Transcontinental | alien | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 15 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 15 | NE | none | Regional | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 15 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 15 | LC | none | Regional | native | Occasional |
| <i>Hypecoum pendulum</i> (<i>Hypecoum parviflorum</i>) | | annual | 15 | NE | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 15 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 15 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 15 | NE | none | Regional | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 15 | NE | none | Transcontinental | native | Abundant |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 15 | NE | none | Regional | native | Occasional |
| <i>Strigosella africana</i> | African mustard | annual | 15 | NE | none | Regional | alien | Occasional |
| <i>Triticum aestivum</i> (crops) | Bread Wheat | Annual | 15 | NE | none | Transcontinental | planted (agricultural crop) | Dominant |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 16 | NE | none | Regional | native | Occasional |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 16 | NE | none | Regional | native | Occasional |
| <i>Astragalus filicaulis</i> | | annual | 16 | NE | none | Regional | native | Occasional |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 16 | LC | none | Regional | native | Abundant |

| | | | | | | | | |
|---|---------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 16 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 16 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 16 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 16 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 16 | NE | none | Regional | native | Occasional |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | | perennial | 16 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 16 | NE | none | Regional | native | Frequent |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 16 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 16 | LC | none | Regional | native | Frequent |
| <i>Hypocoum pendulum</i> (<i>Hypocoum parviflorum</i>) | | annual | 16 | NE | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 16 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 16 | NE | none | Regional | native | Rare |
| <i>Leptaleum filifolium</i> | | annual | 16 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 16 | NE | none | Regional | native | Frequent |
| <i>Meniocus linifolius</i> | | annual | 16 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 16 | NE | none | Regional | native | Frequent |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 16 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 16 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 17 | NE | none | Regional | native | Common |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 17 | NE | none | Regional | native | Occasional |
| <i>Astragalus filicaulis</i> | | annual | 17 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 17 | LC | none | Regional | native | Abundant |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 17 | NE | none | Transcontinental | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 17 | NE | none | Regional | native | Rare |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 17 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 17 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 17 | NE | none | Regional | native | Rare |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | | perennial | 17 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 17 | NE | none | Regional | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 17 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 17 | LC | none | Regional | native | Frequent |
| <i>Hypocoum pendulum</i> (<i>Hypocoum parviflorum</i>) | | annual | 17 | NE | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 17 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 17 | NE | none | Regional | native | Rare |
| <i>Leptaleum filifolium</i> | | annual | 17 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 17 | NE | none | Regional | native | Occasional |
| <i>Meniocus linifolius</i> | | annual | 17 | NE | none | Transcontinental | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 17 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 17 | NE | none | Regional | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 17 | NE | none | Transcontinental | native | Abundant |
| <i>Ranunculus sewerzowii</i> | | perennial | 17 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|--------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | Yarrow | Perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | Perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Allium griffithii</i> | | Perennial | 18 | NE | none | Regional | native | Rare |
| <i>Alyssum desertorum</i> | Desert madwort | Annual | 18 | NE | none | Regional | native | Occasional |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | Annual | 18 | NE | none | Regional | native | Occasional |
| <i>Astragalus filicaulis</i> | | Annual | 18 | NE | none | Regional | native | Occasional |
| <i>Bromus tectorum</i> | Wall Brome | Annual | 18 | NE | none | Transcontinental | native | Frequent |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 18 | LC | none | Regional | native | Abundant |
| <i>Cousinia resinosa</i> | | perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 18 | NE | none | Transcontinental | native | Frequent |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 18 | NE | none | Transcontinental | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | | perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Gagea olgae</i> | | perennial | 18 | NE | none | Regional | native | Frequent |
| <i>Haplophyllum versicolor</i> | | perennial | 18 | NE | none | Regional | native | Rare |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 18 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 18 | LC | none | Regional | native | Occasional |
| <i>Hypocoum pendulum</i> (<i>Hypocoum parviflorum</i>) | | annual | 18 | NE | none | Regional | native | Rare |
| <i>Ixiolirion tataricum</i> | | perennial | 18 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|---|-----------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Koelpinia linearis</i> | | annual | 18 | NE | none | Regional | native | Occasional |
| <i>Leptaleum filifolium</i> | | annual | 18 | NE | none | Regional | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 18 | NE | none | Regional | native | Frequent |
| <i>Meniocus linifolius</i> | | annual | 18 | NE | none | Transcontinental | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 18 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 18 | NE | none | Regional | native | Rare |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 18 | NE | none | Transcontinental | native | Abundant |
| <i>Phlomis thapsoides</i> | | perennial | 18 | NE | none | Regional | native | Frequent |
| <i>Phlomoides labiosa</i> | | perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Ranunculus sewerzowii</i> | | perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Taraxacum monochlamydeum</i> | | perennial | 18 | NE | none | Regional | native | Occasional |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | Yarrow | Perennial | 19 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | Perennial | 19 | NE | none | Regional | native | Frequent |
| <i>Allium griffithii</i> | | Perennial | 19 | NE | none | Regional | native | Rare |
| <i>Alyssum desertorum</i> | Desert madwort | Annual | 19 | NE | none | Regional | native | Occasional |
| <i>Arenaria leptoclados</i> | Thyme-Leaved Sandwort | Annual | 19 | NE | none | Regional | native | Occasional |
| <i>Astragalus filicaulis</i> | | Annual | 19 | NE | none | Regional | native | Occasional |
| <i>Bromus tectorum</i> | Wall Brome | Annual | 19 | NE | none | Transcontinental | native | Frequent |
| <i>Capsella bursa-pastoris</i> | Shepherd's-purse | annual | 19 | LC | none | Transcontinental | alien | Frequent |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 19 | LC | none | Regional | native | Frequent |
| <i>Cousinia microcarpa</i> | | biennial | 19 | NE | none | Regional | native | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 19 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|--|---------------------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Cryptospora falcata</i> (<i>Cryptospora omissa</i>) | | annual | 19 | NE | none | Regional | native | Occasional |
| <i>Descurainia sophia</i> | Flaxweed Tansymustard, Flixweed | annual | 19 | NE | none | Transcontinental | native | Occasional |
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 19 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 19 | NE | none | Transcontinental | native | Frequent |
| <i>Eryngium caeruleum</i> | Sea Holly | biennial | 19 | NE | none | Regional | native | Occasional |
| <i>Gagea graminifolia</i> | | perennial | 19 | NE | none | Regional | native | Occasional |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | | perennial | 19 | NE | none | Regional | native | Frequent |
| <i>Gagea olgae</i> | | perennial | 19 | NE | none | Regional | native | Frequent |
| <i>Haplophyllum versicolor</i> | | perennial | 19 | NE | none | Regional | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 19 | NE | none | Transcontinental | native | Frequent |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 19 | LC | none | Regional | native | Common |
| <i>Hypocoum pendulum</i> (<i>Hypocoum parviflorum</i>) | | annual | 19 | NE | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 19 | NE | none | Regional | native | Occasional |
| <i>Koelpinia linearis</i> | | annual | 19 | NE | none | Regional | native | Rare |
| <i>Lamium amplexicaule</i> | Common Henbit | annual | 19 | NE | none | Transcontinental | native | Occasional |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 19 | NE | none | Regional | native | Frequent |
| <i>Meniocus linifolius</i> | | annual | 19 | NE | none | Transcontinental | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 19 | NE | none | Regional | native | Occasional |

| | | | | | | | | |
|--|---|-----------|----|----|------|------------------|--------|------------|
| <i>Parentucellia flaviflora</i> | Yellow Broadleaf Glandweed | annual | 19 | NE | none | Regional | native | Occasional |
| <i>Peganum harmala</i> | African rue, Harmel | perennial | 19 | NE | none | Regional | native | Occasional |
| <i>Phragmites australis</i> | Common Reed | perennial | 19 | LC | none | Transcontinental | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 19 | NE | none | Transcontinental | native | Abundant |
| <i>Phlomis thapsoides</i> | | perennial | 19 | NE | none | Regional | native | Rare |
| <i>Phlomooides labiosa</i> | | perennial | 19 | NE | none | Regional | native | Occasional |
| <i>Ranunculus sewerzowii</i> | | perennial | 19 | NE | none | Regional | native | Frequent |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 19 | NE | none | Regional | native | Occasional |
| <i>Sisymbrium altissimum</i> | Jim Hill Mustard | annual | 19 | NE | none | Transcontinental | alien | Occasional |
| <i>Strigosella africana</i> | African mustard | annual | 19 | NE | none | Regional | alien | Occasional |
| <i>Taraxacum monochlamydeum</i> | | perennial | 19 | NE | none | Regional | native | Frequent |
| <i>Trigonella grandiflora</i> | | annual | 19 | LC | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 20 | NE | none | Regional | native | Occasional |
| <i>Alyssum desertorum</i> | Desert madwort | Annual | 20 | NE | none | Regional | native | Occasional |
| <i>Bromus tectorum</i> | Wall Brome | annual | 20 | NE | none | Transcontinental | native | Occasional |
| <i>Capparis spinosa</i> | Caper | perennial | 20 | LC | none | Regional | native | Rare |
| <i>Capsella bursa-pastoris</i> | Shepherd's-purse | annual | 20 | LC | none | Transcontinental | alien | Frequent |
| <i>Carthamus oxyacanthus</i> | Wild safflower, Jeweled distaff thistle | annual | 20 | NE | none | Regional | native | Rare |
| <i>Centaurea iberica</i> | Iberian knapweed | biennial | 20 | NE | none | Transcontinental | alien | Occasional |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | Squarrose knapweed | perennial | 20 | NE | none | Regional | native | Occasional |
| <i>Cichorium intybus</i> | Chicory | perennial | 20 | LC | none | Transcontinental | alien | Occasional |

| | | | | | | | | |
|--|---------------------------------------|---------------------|----|----|------|------------------|-------------------------------|------------|
| <i>Convolvulus arvensis</i> | Bindweed | Perennial, liana | 20 | NE | none | Transcontinental | alien | Occasional |
| <i>Descurainia sophia</i> | Flaxweed Tansymustard, Flixweed | annual | 20 | NE | none | Transcontinental | native | Occasional |
| <i>Echium biebersteinii</i> | | biennial | 20 | NE | none | Regional | native | Rare |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 20 | NE | none | Transcontinental | native | Frequent |
| <i>Gleditsia caspica</i> | Caspian Locust | tree | 20 | EN | none | Regional | introduced, planted | Rare |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum</i> <i>leporinum</i>) | Wall Barley, Falce Barley | annual | 20 | LC | none | Regional | native | Frequent |
| <i>Lamium amplexicaule</i> | Common Henbit | annual | 20 | NE | none | Transcontinental | native | Occasional |
| <i>Malus domestica</i> | Apple | tree | 20 | NE | none | Transcontinental | introduced, planted | Dominant |
| <i>Malva neglecta</i> | Buttonweed, Dwarf Mallow | perennial | 20 | LC | none | Transcontinental | alien | Occasional |
| <i>Onopordum leptolepis</i> | | biennial | 20 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 20 | NE | none | Regional | native | Occasional |
| <i>Plantago lanceolata</i> | Ribwort Plantain | perennial | 20 | LC | none | Transcontinental | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 20 | NE | none | Transcontinental | native | Abundant |
| <i>Rhaponticum repens</i> (<i>Acroptilon repens</i>) | Russian Knapweed | perennial | 20 | NE | none | Transcontinental | native, quarantine weed | Occasional |
| <i>Rosa persica</i> (<i>Hulthemia</i> <i>persica</i>) | Persian rose | subshrub | 20 | NE | none | Regional | native | Frequent |
| <i>Sisymbrium altissimum</i> | Jim Hill Mustard | annual | 20 | NE | none | Transcontinental | alien | Occasional |

| | | | | | | | | |
|---|---------------------------------------|---------------------|----|----|------|------------------|-----------------|------------|
| <i>Sophora pachycarpa</i> | | perennial | 20 | NE | none | Regional | native | Rare |
| <i>Strigosella africana</i> | African mustard | annual | 20 | NE | none | Regional | alien | Occasional |
| <i>Ulmus pumila</i> | Siberian Elm | tree | 20 | LC | none | Regional | native, planted | Rare |
| <i>Xanthium spinosum</i> | Bathurst burr | annual | 20 | NE | none | Transcontinental | alien | Rare |
| <i>Achillea arabica</i> (<i>Achillea biebersteinii</i>) | Yarrow | perennial | 21 | NE | none | Regional | native | Occasional |
| <i>Alhagi pseudalhagi</i> | Camel Thorn | perennial | 21 | NE | none | Regional | native | Frequent |
| <i>Alyssum desertorum</i> | Desert madwort | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Astragalus filicaulis</i> | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Bromus tectorum</i> | Wall Brome | Annual | 21 | NE | none | Transcontinental | native | Frequent |
| <i>Capsella bursa-pastoris</i> | Shepherd's-purse | annual | 21 | LC | none | Transcontinental | alien | Frequent |
| <i>Carex pachystylis</i> | Thick-stem sedge, desert sedge | perennial | 21 | LC | none | Regional | native | Abundant |
| <i>Ceratocephala orthoceras</i> | Curveseed butterwort | annual | 21 | NE | none | Transcontinental | native | Occasional |
| <i>Cichorium intybus</i> | Chicory | perennial | 21 | LC | none | Transcontinental | alien | Occasional |
| <i>Convolvulus arvensis</i> | Bindweed | Perennial, liana | 21 | NE | none | Transcontinental | alien | Occasional |
| <i>Cousinia resinosa</i> | | perennial | 21 | NE | none | Regional | native | Rare |
| <i>Cryptospora falcata</i> (<i>Cryptospora omissa</i>) | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Descurainia sophia</i> | Flaxweed Tansymustard, Flixweed | annual | 21 | NE | none | Transcontinental | native | Frequent |

| | | | | | | | | |
|---|---------------------------|-----------|----|----|------|------------------|--------|------------|
| <i>Draba verna</i> (<i>Erophila verna</i>) | Spring Draba | annual | 21 | NE | none | Transcontinental | native | Occasional |
| <i>Erodium cicutarium</i> | Common Storks Bill | annual | 21 | NE | none | Transcontinental | native | Frequent |
| <i>Eruca sativa</i> | Rocket | annual | 21 | NE | none | Transcontinental | alien | Occasional |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | | perennial | 21 | NE | none | Regional | native | Frequent |
| <i>Goldbachia torulosa</i> | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Holosteum umbellatum</i> | Jagged Chickweed | annual | 21 | NE | none | Transcontinental | native | Occasional |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | Wall Barley, Falce Barley | annual | 21 | LC | none | Regional | native | Frequent |
| <i>Hypocoum pendulum</i> (<i>Hypocoum parviflorum</i>) | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Ixiolirion tataricum</i> | | perennial | 21 | NE | none | Regional | native | Occasional |
| <i>Lepidium draba</i> (<i>Cardaria draba</i>) | Heart-Pod Hoary Cress | perennial | 21 | NE | none | Transcontinental | native | Frequent |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Nonea caspica</i> | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Papaver pavoninum</i> | | annual | 21 | NE | none | Regional | native | Occasional |
| <i>Phlomis thapsoides</i> | | perennial | 21 | NE | none | Regional | native | Occasional |
| <i>Poa bulbosa</i> | Bulbous Bluegrass | perennial | 21 | NE | none | Transcontinental | native | Abundant |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | Persian rose | subshrub | 21 | NE | none | Regional | native | Frequent |
| <i>Strigosella africana</i> | African mustard | annual | 21 | NE | none | Regional | alien | Occasional |
| <i>Trigonella grandiflora</i> | | annual | 21 | LC | none | Regional | native | Occasional |

| | | | | | | | | |
|-------------------|-------------|--------|----|----|------|------------------|-----------------------------------|----------|
| Triticum aestivum | Bread Wheat | Annual | 21 | NE | none | Transcontinental | planted (agricultural crop) | Dominant |
|-------------------|-------------|--------|----|----|------|------------------|-----------------------------------|----------|

Annex E: The list of sample plots

Table 4: Check-list of plants recorded on sample plot 01-2024 (39.573505° N, 66.740345° E), 500 MW BESS, Nurobod District of Samarkand Region, fallow land

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | R | + | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Arenaria leptoclados | annual | 5-7 | R | + | vegetation |
| Carex pachystylis | perennial | 7-10 | F | 2 | flowering |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 10-12 | R | + | vegetation |
| Erodium cicutarium | annual | 10-12 | F | 2 | flowering |
| Gagea olgae | perennial | 5-7 | C | 1 | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | flowering |
| Minuartia meyeri | annual | 5-7 | R | + | vegetation |
| Peganum harmala | perennial | 7-10 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | C | 2 | fruiting |
| Sedum aetnense (Sedum tetramerum) | annual | 1-2 | F | 1 | flowering |

Table 5: Check-list of plants recorded on sample plot 02-2024 (39.575733° N, 66.745086° E), Nurobod substation, Nurobod District of Samarkand Region, fallow land

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | R | + | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Aphanopleura capillifolia | annual | 5-7 | O | + | vegetation |
| Arenaria leptoclados | annual | 5-7 | O | + | vegetation |
| Carex pachystylis | perennial | 7-10 | F | 2 | Flowering, fruiting |
| Capparis spinosa | perennial | 20-30 | R | + | dried |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 10-12 | R | + | vegetation |
| Erodium cicutarium | annual | 10-12 | F | 2 | flowering |
| Gagea olgae | perennial | 5-7 | C | 1 | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | O | + | vegetation |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | flowering |
| Minuartia meyeri | annual | 5-7 | R | + | dried |
| Peganum harmala | perennial | 12-15 | O | + | vegetation |

| | | | | | |
|-----------------------------------|-----------|-------|---|---|------------|
| Plantago lanceolata | perennial | 5-10 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | C | 2 | fruiting |
| Sedum aetnense (Sedum tetramerum) | annual | 1-2 | F | 1 | flowering |

Table 6: Check-list of plants recorded on sample plot 03-2024 (39.567669° N, 66.743024° E), 220 kV Overhead Transmission Line, Nurobod District of Samarkand Region, to the south of Nurobod substation site, fallow land

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | F | 2 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Aphanopleura capillifolia | annual | 5-7 | O | + | vegetation |
| Arenaria leptoclados | annual | 5-7 | O | + | vegetation |
| Carex pachystylis | perennial | 7-10 | F | 1 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 10-12 | O | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | F | 1 | flowering |
| Gagea olgae | perennial | 5-7 | F | 1 | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | O | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | flowering |
| Peganum harmala | perennial | 12-15 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | C | 2 | fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Sedum aetnense (Sedum tetramerum) | annual | 1-2 | O | + | flowering |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | flowering |

Table 7: Check-list of plants recorded on sample plot 04-2024 (39.563586° N, 66.723789° E), Access Road, Nurobod District of Samarkand Region, 1.5 km to the northwest of the village Sazagan, strongly degraded dry grassland

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---------------------------|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | O | 1 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Aphanopleura capillifolia | annual | 5-7 | O | + | vegetation |
| Arenaria leptoclados | annual | 5-7 | O | + | vegetation |
| Carex pachystylis | perennial | 7-10 | C | 2 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Cousinia resinosa | perennial | 10-12 | O | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | F | + | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | C | 1 | flowering |
| Gentiana olivieri | perennial | 5-7 | O | + | vegetation |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | R | + | vegetation |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | F | + | flowering |
| Poa bulbosa | perennial | 15-20 | A | 2 | fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | flowering |

Table 8: Check-list of plants recorded on sample plot 05-2024 (39.547369° N, 66.6845° E), Sazagan 100 MW PV site, Nurobod District of Samarkand Region, 2.5 km to the west of the village Sazagan, fallow land

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|------------------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Achillea arabica (Achillea biebersteinii) | perennial | 7-10 | O | + | vegetation |
| Alhagi pseudalhagi | perennial | 20-30 | O | 1 | Dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Arenaria leptoclados | annual | 10-15 | O | + | Flowering |
| Bromus tectorum | annual | 20-25 | F | + | vegetation |
| Capparis spinosa | perennial | 15-20 | R | + | vegetation |
| Centaurea benedicta (Cnicus benedictus) | annual | 10-15 | R | + | Flowering |
| Centaurea iberica | biennial | 10-15 | O | + | vegetation |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cichorium intybus | perennial | 10-15 | O | + | vegetation |
| Convolvulus arvensis | Perennial, liana | 5-7 | O | + | vegetation |
| Cousinia microcarpa | biennial | 10-15 | O | + | vegetation |
| Cousinia resinosa | perennial | 10-15 | F | 1 | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | Flowering |
| Gagea olgae | perennial | 5-7 | O | + | Flowering |
| Haplophyllum versicolor | perennial | 5-7 | O | + | vegetation |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 10-12 | O | + | vegetation |
| Rosa persica (Hulthemia persica) | subshrub | 15-20 | F | 1 | vegetation |

| | | | | | |
|--|-----------|-------|---|---|------------|
| <i>Ixiolirion tataricum</i> | perennial | 10-15 | O | + | vegetation |
| <i>Koelpinia linearis</i> | annual | 10-12 | O | + | Flowering |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 5-7 | O | + | Flowering |
| <i>Onopordum leptolepis</i> | biennial | 50-70 | O | + | vegetation |
| <i>Papaver pavoninum</i> | annual | 20-25 | O | + | Dried |
| <i>Peganum harmala</i> | perennial | 20-30 | R | + | vegetation |
| <i>Plantago lanceolata</i> | perennial | 5-10 | O | + | vegetation |
| <i>Poa bulbosa</i> | perennial | 25-30 | C | 1 | Fruiting |
| <i>Ranunculus sewerzowii</i> | perennial | 5-7 | O | + | vegetation |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | subshrub | 30-40 | O | + | vegetation |
| <i>Sisymbrium altissimum</i> | annual | 20-30 | O | + | Vegetation |
| <i>Sophora pachycarpa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Strigosella africana</i> | annual | 10-15 | R | + | Flowering |
| <i>Taraxacum monochlamydeum</i> | perennial | 10-12 | R | + | flowering |
| <i>Turgenia latifolia</i> | annual | 10-15 | O | + | vegetation |
| <i>Xanthium spinosum</i> | annual | 20-30 | R | + | vegetation |
| <i>Ziziphora tenuior</i> | annual | 5-7 | O | + | vegetation |

Table 9: Check-list of plants recorded on sample plot 06-2024 (39.550955° N, 66.688282° E), Nurobod District of Samarkand Region, Ettitepa Archeologic Heritage site, dry grassland

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---|------------------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Achillea arabica</i> (<i>Achillea biebersteinii</i>) | perennial | 7-10 | O | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 20-30 | O | + | dried |
| <i>Allium drepanophyllum</i> | perennial | 10-15 | R | + | vegetation |
| <i>Alyssum desertorum</i> | annual | 5-7 | O | + | Flowering, fruiting |
| <i>Arenaria leptoclados</i> | annual | 10-15 | O | + | flowering |
| <i>Astragalus filicaulis</i> | annual | 10-15 | O | + | Flowering |
| <i>Bromus tectorum</i> | annual | 10-12 | F | + | Vegetation |
| <i>Capparis spinosa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Carex pachystylis</i> | perennial | 7-10 | A | 2 | Flowering, fruiting |
| <i>Centaurea benedicta</i> (<i>Cnicus benedictus</i>) | annual | 10-15 | R | + | Flowering |
| <i>Centaurea iberica</i> | biennial | 10-15 | O | + | Vegetation |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | perennial | 10-15 | O | + | Vegetation |
| <i>Convolvulus arvensis</i> | Perennial, liana | 5-10 | O | + | Vegetation |
| <i>Corydalis sewerzowii</i> | perennial | 10-15 | O | + | Flowering |
| <i>Cousinia microcarpa</i> | biennial | 10-15 | O | + | Vegetation |
| <i>Cousinia resinosa</i> | perennial | 20-25 | O | + | Vegetation |
| <i>Crocus korolkowii</i> | perennial | 10-12 | O | + | Vegetation |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | F | + | Flowering, fruiting |
| <i>Erodium cicutarium</i> | annual | 10-12 | O | + | Flowering |
| <i>Gagea chomutovae</i> | perennial | 10-12 | R | + | Flowering |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Gagea graminifolia | perennial | 4-5 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | F | + | Flowering |
| Haplophyllum versicolor | perennial | 5-10 | R | + | Vegetation |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 10-15 | F | 1 | Vegetation |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Koelpinia linearis | annual | 10-15 | O | + | flowering |
| Lamium amplexicaule | annual | 10-15 | O | + | flowering |
| Papaver pavoninum | annual | 10-15 | O | + | Budding |
| Peganum harmala | perennial | 15-20 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 1 | Flowering, fruiting |
| Phlomis thapsoides | perennial | 15-20 | O | + | vegetation |
| Phlomoides labiosa | perennial | 15-20 | F | 1 | vegetation |
| Plantago lanceolata | perennial | 5-10 | O | + | Vegetation |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Rhaponiticum repens (Acroptilon repens) | perennial | 30-40 | R | + | Vegetation |
| Sisymbrium altissimum | annual | 30-40 | F | + | Vegetation |
| Sophora pachycarpa | perennial | 15-20 | O | + | Vegetation |
| Strigosella africana | annual | 10-15 | R | + | Flowering |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | flowering |
| Turgenia latifolia | annual | 15-20 | R | + | Vegetation |
| Xanthium spinosum | annual | 20-30 | O | + | Vegetation |
| Ziziphora tenuior | annual | 5-7 | R | + | flowering |

Table 10: Check-list of plants recorded on sample plot 07-2024 (39.580849° N, 66.754212° E), western part of OTHL Nurobod substation – Sogdiana, Nurobod District of Samarkand Region, to the east of Nurobod substation site, arable land, young apple garden

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 15-20 | R | + | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Aphanopleura capillifolia | annual | 5-7 | R | + | vegetation |
| Arenaria leptoclados | annual | 5-7 | R | + | vegetation |
| Capsella bursa-pastoris | annual | 15-20 | O | + | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | O | + | dried |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 10-12 | R | + | vegetation |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | R | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | R | + | vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | flowering |
| Lamium amplexicaule | annual | 10-15 | R | + | flowering |

| | | | | | |
|--|-----------|-------|---|---|------------|
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | flowering |
| Papaver pavoninum | annual | 10-15 | R | + | Budding |
| Peganum harmala | perennial | 12-15 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | O | + | fruiting |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | flowering |

Table 11: Check-list of plants recorded on sample plot 08-2024 (39.580547° N, 66.77518° E), OTHL Nurobod substation – Sogdiana, Nurobod District of Samarkand Region, a quarry in the dry bed of the river Tepakulsay and strongly degraded dry grassland on the left bank of the river

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 15-20 | F | 1 | dried |
| Alyssum desertorum | annual | 5-7 | F | + | Flowering, fruiting |
| Arenaria leptoclados | annual | 10-15 | O | + | flowering |
| Bromus tectorum | annual | 20-25 | F | + | Vegetation |
| Capparis spinosa | perennial | 15-20 | R | + | Vegetation |
| Carex pachystylis | perennial | 7-10 | A | 2 | Flowering, fruiting |
| Centaurea iberica | biennial | 10-15 | R | + | Vegetation |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 20-25 | O | + | Vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | C | 1 | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | F | 1 | Flowering |
| Gagea olgae | perennial | 5-7 | F | + | Flowering |
| Haplophyllum versicolor | perennial | 5-10 | R | + | Vegetation |
| Holosteum umbellatum | annual | 7-10 | O | + | Flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 10-15 | O | + | Vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | Flowering |
| Malva neglecta | perennial | 7-10 | O | + | Vegetation |
| Papaver pavoninum | annual | 10-15 | R | + | Budding |
| Peganum harmala | perennial | 15-20 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 1 | Flowering, fruiting |
| Plantago lanceolata | perennial | 5-10 | O | + | Vegetation |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Sophora pachycarpa | perennial | 15-20 | O | + | Vegetation |
| Strigosella africana | annual | 10-15 | R | + | Flowering |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | flowering |
| Xanthium spinosum | annual | 20-30 | R | + | Vegetation |

Table 12: Check-list of plants recorded on sample plot 09-2024 (39.57993° N, 66.85574° E), OTHL Nurobod substation – Sogdiana, Samarkand District of Samarkand Region, 1.5 km to the north of the village Mehrobod, apple garden

| Species | Life form | | Abundance | |
|---------|-----------|--|-----------|--|
|---------|-----------|--|-----------|--|

| | | Height, cm | DACFOR | Braun- Blanquet | Phenol. Stage |
|---|---------------------|---------------|--------|--------------------|------------------------|
| Alhagi pseudalhagi | perennial | 10-15 | O | + | vegetation |
| Artemisia serotina | perennial | 15-20 | R | + | vegetation |
| Bromus tectorum | annual | 15-20 | O | + | vegetation |
| Capsella bursa-pastoris | annual | 20-30 | O | + | Flowering, fruiting |
| Carduus arabicus | annual | 15-20 | O | + | budding |
| Carthamus oxyacanthus | annual | 20-30 | O | + | dried |
| Centaurea iberica | biennial | 10-15 | R | + | vegetation |
| Centaurea virgata subsp. squarrosa | perennial | 10-15 | O | + | vegetation |
| Ceratocephala orthoceras | annual | 4-5 | F | + | Flowering, fruiting |
| Cichorium intybus | perennial | 10-15 | O | + | vegetation |
| Cirsium vulgare | biennial | 15-20 | R | + | vegetation |
| Convolvulus arvensis | Perennial, liana | 5-10 | F | + | vegetation |
| Descurainia sophia | annual | 20-30 | O | + | Flowering, fruiting |
| Echium biebersteinii | biennial | 30-40 | R | + | dried |
| Erodium cicutarium | annual | 10-12 | F | 1 | flowering |
| Eryngium caeruleum | biennial | 20-30 | R | + | dried |
| Holosteum umbellatum | annual | 10-15 | F | 1 | Flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | A | 2 | vegetation |
| Lamium amplexicaule | annual | 10-15 | O | + | flowering |
| Malus domestica | tree | 250-300 | D | 4 | vegetation |
| Malva neglecta | perennial | 7-10 | O | + | Vegetation |
| Onopordum leptolepis | biennial | 15-20 | O | + | vegetation |
| Papaver pavoninum | annual | 10-15 | O | + | Budding |
| Plantago lanceolata | perennial | 10-15 | F | 1 | fruiting |
| Poa bulbosa | perennial | 15-20 | F | 1 | Flowering, fruiting |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Sisymbrium altissimum | annual | 20-30 | O | + | budding |
| Sophora pachycarpa | perennial | 10-15 | R | + | vegetation |
| Xanthium spinosum | annual | 10-15 | R | + | vegetation |

Table 13: Check-list of plants recorded on sample plot 10-2024 (39.459027° N, 65.97769° E), northern part of 400 MW PV site, Nurobod District of Samarkand Region, fallow land, 1 km to the west of the village Koshkuduk, camel thorn-ephemeroid vegetation

| Species | Life form | Height, cm | Abundance DACFOR | Braun- Blanquet | Phenol. Stage |
|--------------------------|-----------|---------------|---------------------|--------------------|------------------------|
| Alhagi pseudalhagi | perennial | 20-30 | F | 1 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | C | 2 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 15-20 | O | + | vegetation |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Draba verna (Erophila verna) | annual | 5-7 | F | 1 | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | F | + | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | O | + | vegetation |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | F | + | Flowering |
| Peganum harmala | perennial | 15-20 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | C | 2 | Fruiting |

Table 14: Check-list of plants recorded on sample plot 11-2024 (39.453977° N, 65.965366° E), western part of 400 MW PV site, Nurobod District of Samarkand Region, 2.7 km to the west of the village Koshkuduk, clayey piedmont plain with native camel thorn-ephemeroid vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | F | 1 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | A | 2 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Colchicum robustum (Merendera robusta) | perennial | 12-15 | O | + | flowering |
| Cousinia resinosa | perennial | 15-20 | O | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | F | 1 | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | C | 1 | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | O | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | Flowering |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | F | + | Flowering |
| Peganum harmala | perennial | 15-20 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Strigosella brevipes | annual | 12-15 | R | + | flowering |

Table 15: Check-list of plants recorded on sample plot 12-2024 (39.43708° N, 65.966615° E), 500 MW PV site, Nurobod District of Samarkand Region, 2.5 km to the west of the village Koshkuduk, fallow land with ephemeroïd vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | O | + | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | A | 2 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Colchicum robustum (Merendera robusta) | perennial | 12-15 | F | 1 | flowering |
| Cousinia resinosa | perennial | 15-20 | O | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | C | 1 | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | R | + | flowering |
| Gagea olgae | perennial | 5-7 | F | 1 | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | O | + | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Koelpinia linearis | annual | 10-15 | O | + | Flowering |
| Leptaleum filifolium | annual | 5-7 | F | + | Flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | F | + | Flowering |
| Peganum harmala | perennial | 15-20 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | F | + | vegetation |

Table 16: Check-list of plants recorded on sample plot 13-2024 (39.420041° N, 65.94642° E), western part of 500 MW PV site, Nurobod District of Samarkand Region, 4.6 km to the southwest of the village Koshkuduk, clayey piedmont plain with native camel thorn-ephemeroïd vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | F | 1 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | A | 2 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Colchicum robustum (Merendera robusta) | perennial | 12-15 | O | + | flowering |
| Cousinia resinosa | perennial | 15-20 | R | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | O | + | flowering |

| | | | | | |
|---|-----------|-------|---|---|------------|
| <i>Gagea olgae</i> | perennial | 5-7 | C | 1 | flowering |
| <i>Holosteum umbellatum</i> | annual | 7-10 | O | + | flowering |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 7-10 | F | 1 | vegetation |
| <i>Ixiolirion tataricum</i> | perennial | 10-15 | O | + | Vegetation |
| <i>Koelpinia linearis</i> | annual | 10-15 | O | + | Flowering |
| <i>Leptaleum filifolium</i> | annual | 5-7 | O | + | Flowering |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 5-7 | O | + | Flowering |
| <i>Peganum harmala</i> | perennial | 15-20 | O | 1 | vegetation |
| <i>Poa bulbosa</i> | perennial | 15-20 | A | 2 | Fruiting |
| <i>Ranunculus sewerzowii</i> | perennial | 5-7 | O | + | vegetation |
| <i>Strigosella brevipes</i> | annual | 12-15 | O | + | flowering |

Table 17: Check-list of plants recorded on sample plot 14-2024 (39.42679° N, 65.99937° E), access road to 400 MW PV site, Nurobod District of Samarkand Region, 0.3 km to the west of the village Koshkuduk, fallow land with sparse camel thorn-ephemeroid vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Alhagi pseudalhagi</i> | perennial | 20-30 | F | 1 | dried |
| <i>Alyssum desertorum</i> | annual | 5-7 | F | + | Flowering, fruiting |
| <i>Carex pachystylis</i> | perennial | 7-10 | O | + | Flowering, fruiting |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | F | + | Flowering, fruiting |
| <i>Cousinia resinosa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | O | + | Flowering, fruiting |
| <i>Erodium cicutarium</i> | annual | 10-12 | O | + | flowering |
| <i>Gagea olgae</i> | perennial | 5-7 | O | + | flowering |
| <i>Holosteum umbellatum</i> | annual | 7-10 | F | + | flowering |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 7-10 | O | + | vegetation |
| <i>Hypocym pendulum</i> (<i>Hypocym parviflorum</i>) | annual | 10-12 | O | + | flowering |
| <i>Ixiolirion tataricum</i> | perennial | 10-15 | O | + | vegetation |
| <i>Leptaleum filifolium</i> | annual | 5-7 | F | + | Flowering |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 5-7 | O | + | Flowering |
| <i>Papaver pavoninum</i> | annual | 10-15 | O | + | Budding |
| <i>Peganum harmala</i> | perennial | 15-20 | R | + | vegetation |
| <i>Poa bulbosa</i> | perennial | 15-20 | F | 1 | Fruiting |

Table 18: Check-list of plants recorded on sample plot 15-2024 (39.418412° N, 66.71898° E), 70 km OTHL, Nurobod District of Samarkand Region, 2.5 km to the south of the village Koshkuduk, rainfed arable lands (wheat fields)

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---------------------------|-----------|------------|-----------|----------------|---------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Alhagi pseudalhagi</i> | perennial | 20-30 | F | 1 | dried |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | F | 1 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cousinia resinosa | perennial | 15-20 | R | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Eruca sativa | annual | 10-15 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | O | + | flowering |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 7-10 | O | + | vegetation |
| Hypecoum pendulum (Hypecoum parviflorum) | annual | 10-12 | O | + | flowering |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | Flowering |
| Papaver pavoninum | annual | 10-15 | O | + | Budding |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Strigosella africana | annual | 12-15 | O | + | flowering |
| Triticum aestivum (crops) | Annual | 15-20 | D | 3 | vegetation |

Table 19: Check-list of plants recorded on sample plot 16-2024 (39.447806° N, 65.966744° E), western part of 400 MW PV site, Nurobod District of Samarkand Region, 2.7 km to the west of the village Koshkuduk, clayey piedmont plain with native harmel-ephemeroid vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | O | + | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Astragalus filicaulis | annual | 10-12 | O | + | flowering |
| Carex pachystylis | perennial | 10-12 | A | 2 | fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | fruiting |
| Cousinia resinosa | perennial | 15-20 | O | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | Flowering, fruiting |
| Gagea graminifolia | perennial | 4-5 | O | + | fruiting |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | F | + | fruiting |
| Holosteum umbellatum | annual | 7-10 | O | + | fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | F | 1 | vegetation |
| Hypecoum pendulum (Hypecoum parviflorum) | annual | 12-15 | O | + | Flowering, fruiting |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Koelpinia linearis | annual | 10-15 | R | + | Flowering, fruiting |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering, fruiting |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | F | + | Flowering, fruiting |
| Meniocus linifolius | annual | 7-10 | O | + | Flowering, fruiting |
| Peganum harmala | perennial | 20-30 | F | 2 | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |

Table 20: Check-list of plants recorded on sample plot 17-2024 (39.42562° N, 65.96582° E), eastern part of 500 MW PV site, Nurobod District of Samarkand Region, 3 km to the west of the village Koshkuduk, clayey piedmont plain with native camel thorn-ephemeroid vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | C | 2 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | Flowering, fruiting |
| Astragalus filicaulis | annual | 10-12 | O | + | flowering |
| Carex pachystylis | perennial | 10-12 | A | 2 | fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | fruiting |
| Cousinia resinosa | perennial | 15-20 | R | + | vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | Flowering, fruiting |
| Gagea graminifolia | perennial | 4-5 | R | + | fruiting |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | O | + | fruiting |
| Holosteum umbellatum | annual | 7-10 | O | + | fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | F | 1 | vegetation |
| Hypocoum pendulum (Hypocoum parviflorum) | annual | 12-15 | O | + | Flowering, fruiting |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | Flowering, fruiting |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering, fruiting |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | Flowering, fruiting |
| Meniocus linifolius | annual | 7-10 | O | + | Flowering, fruiting |
| Papaver pavoninum | annual | 10-15 | O | + | flowering |
| Peganum harmala | perennial | 20-30 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |

Table 21: Check-list of plants recorded on sample plot 18-2024 (39.436784° N, 66.174337° E), 70 km OTHL, Nurobod District of Samarkand Region, 3 km to the south of the village Urtabuz, dry foothills, forb-ephemeroid community

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Achillea kermanica | Perennial | 10-12 | O | + | vegetation |
| Alhagi pseudalhagi | Perennial | 10-15 | O | + | Vegetation |
| Allium griffithii | Perennial | 10-12 | R | + | Flowering |
| Alyssum desertorum | Annual | 5-7 | O | + | fruiting |
| Arenaria leptoclados | Annual | 10-15 | O | + | flowering |
| Astragalus filicaulis | Annual | 10-15 | O | + | Flowering |
| Bromus tectorum | Annual | 10-15 | F | + | Vegetation |
| Carex pachystylis | perennial | 7-10 | A | 2 | fruiting |
| Cousinia resinosa | perennial | 15-20 | O | + | Vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | F | + | fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | Flowering, fruiting |
| Gagea graminifolia | perennial | 4-5 | O | + | fruiting |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | F | + | fruiting |
| Haplophyllum versicolor | perennial | 12-15 | R | + | Vegetation |
| Holosteum umbellatum | annual | 7-10 | O | + | fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | O | + | Vegetation |
| Hypocoum pendulum (Hypocoum parviflorum) | annual | 12-15 | R | + | Flowering, fruiting |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Koelpinia linearis | annual | 10-15 | O | + | flowering |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering, fruiting |
| Medicago monantha (Trigonella geminiflora) | annual | 7-10 | F | + | Flowering, fruiting |
| Meniocus linifolius | annual | 7-10 | O | + | Flowering, fruiting |
| Papaver pavoninum | annual | 10-15 | O | + | flowering |
| Peganum harmala | perennial | 20-30 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 1 | fruiting |
| Phlomis thapsoides | perennial | 15-20 | F | + | vegetation |
| Phlomoides labiosa | perennial | 15-20 | O | + | vegetation |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | fruiting |

Table 22: Check-list of plants recorded on sample plot 19-2024 (39.50505° N, 66.3752° E), 70 km OTHL, Nurobod District of Samarkand Region, canal Eski Anhor, reeds and camel thorn-forb-grass community

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--------------------|-----------|------------|-----------|----------------|---------------|
| | | | DACFOR | Braun-Blanquet | |
| Achillea kermanica | Perennial | 10-12 | O | + | vegetation |
| Alhagi pseudalhagi | Perennial | 15-20 | F | 1 | Vegetation |
| Allium griffithii | Perennial | 10-12 | R | + | Flowering |
| Alyssum desertorum | Annual | 5-7 | O | + | fruiting |

| | | | | | |
|--|-----------|---------|---|---|---------------------|
| Arenaria leptoclados | Annual | 10-15 | O | + | flowering |
| Astragalus filicaulis | Annual | 10-15 | O | + | Flowering |
| Bromus tectorum | Annual | 15-20 | F | 1 | Budding |
| Capsella bursa-pastoris | annual | 20-25 | F | 1 | Flowering, fruiting |
| Carex pachystylis | perennial | 7-10 | F | 1 | fruiting |
| Cousinia microcarpa | biennial | 15-20 | O | + | Vegetation |
| Cousinia resinosa | perennial | 15-20 | O | + | Vegetation |
| Cryptospora falcata (Cryptospora omissa) | annual | 15-20 | O | + | flowering |
| Descurainia sophia | annual | 20-30 | O | + | Flowering, fruiting |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | fruiting |
| Erodium cicutarium | annual | 12-15 | F | 1 | Flowering, fruiting |
| Eryngium caeruleum | biennial | 20-30 | O | + | dried |
| Gagea graminifolia | perennial | 4-5 | O | + | fruiting |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | F | + | flowering |
| Gagea olgae | perennial | 5-7 | F | + | fruiting |
| Haplophyllum versicolor | perennial | 12-15 | O | + | Vegetation |
| Holosteum umbellatum | annual | 7-10 | F | + | fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | C | 2 | Vegetation |
| Hypocoum pendulum (Hypocoum parviflorum) | annual | 12-15 | O | + | Flowering, fruiting |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | flowering |
| Lamium amplexicaule | annual | 10-15 | O | + | flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 10-15 | F | + | Flowering, fruiting |
| Meniocus linifolius | annual | 7-10 | O | + | Flowering, fruiting |
| Papaver pavoninum | annual | 10-15 | O | + | flowering |
| Parentucellia flaviflora | annual | 7-10 | O | + | flowering |
| Peganum harmala | perennial | 20-30 | O | 1 | vegetation |
| Phragmites australis | perennial | 100-150 | O | + | dried |
| Poa bulbosa | perennial | 15-20 | A | 1 | fruiting |
| Phlomis thapsoides | perennial | 15-20 | R | + | vegetation |
| Phlomis labiosa | perennial | 15-20 | O | + | vegetation |
| Ranunculus sewerzowii | perennial | 5-7 | F | + | vegetation |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Sisymbrium altissimum | annual | 20-30 | O | + | Flowering, fruiting |
| Strigosella africana | annual | 12-15 | O | + | flowering |
| Taraxacum monochlamydeum | perennial | 10-12 | F | 1 | fruiting |
| Trigonella grandiflora | annual | 15-20 | O | + | Flowering, fruiting |

Table 23: Check-list of plants recorded on sample plot 20-2024 (39.560228° N, 66.5832° E), 360 km OTHL, Pastdargom District of Samarkand Region, apple garden and boundary-strip 2 km to the south of village Khancharvak

| Species | Life form | Height, cm | Abundance | |
|---------|-----------|------------|-----------|--|
|---------|-----------|------------|-----------|--|

| | | | DACFOR | Braun-Blanquet | Phenol. Stage |
|--|------------------|----------------------|--------|----------------|---------------------|
| Alhagi pseudalhagi | perennial | 15-20 | O | + | vegetation |
| Alyssum desertorum | Annual | 5-7 | O | + | fruiting |
| Bromus tectorum | annual | 15-20 | O | + | Flowering |
| Capparis spinosa | perennial | 20-25 | R | 1 | vegetation |
| Capsella bursa-pastoris | annual | 20-25 | F | 1 | Flowering, fruiting |
| Carthamus oxyacanthus | annual | 30-40 | R | + | dried |
| Centaurea iberica | biennial | 15-20 | O | + | vegetation |
| Centaurea virgata subsp. squarrosa | perennial | 15-20 | O | + | vegetation |
| Cichorium intybus | perennial | 15-20 | O | + | vegetation |
| Convolvulus arvensis | Perennial, liana | 10-15 | O | + | vegetation |
| Descurainia sophia | annual | 20-30 | O | + | Flowering, fruiting |
| Echium biebersteinii | biennial | 25-30 | R | + | dried |
| Erodium cicutarium | annual | 12-15 | F | 1 | Flowering, fruiting |
| Gleditsia caspica | tree | 4-5 m | R | 1 | vegetation |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | Holosteum umbellatum | F | 1 | vegetation |
| Lamium amplexicaule | annual | 10-15 | O | + | flowering |
| Malus domestica | tree | 200-250 | D | 4 | vegetation |
| Malva neglecta | perennial | 7-10 | O | + | Vegetation |
| Onopordum leptolepis | biennial | 20-30 | O | 1 | vegetation |
| Papaver pavoninum | annual | 10-15 | O | + | flowering |
| Plantago lanceolata | perennial | 10-15 | O | + | vegetation |
| Poa bulbosa | perennial | 20-25 | A | 2 | fruiting |
| Rhaponiticum repens (Acroptilon repens) | perennial | 15-20 | O | + | vegetation |
| Rosa persica (Hulthemia persica) | subshrub | 30-40 | F | 1 | vegetation |
| Sisymbrium altissimum | annual | 30-40 | O | + | Flowering, fruiting |
| Sophora pachycarpa | perennial | 30-40 | R | + | vegetation |
| Strigosella africana | annual | 12-15 | O | + | flowering |
| Ulmus pumila | tree | 2-3 m | F | 2 | vegetation |
| Xanthium spinosum | annual | 25-30 | R | + | vegetation |

Table 24: Check-list of plants recorded on sample plot (39.52184° N, 66.464766° E), 70 km OTHL, Nurobod District of Samarkand Region, 2.5 km to the northwest of the village Sarikul, rainfed arable lands (wheat fields)

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Achillea arabica (Achillea biebersteinii) | perennial | 10-15 | O | + | vegetation |
| Alhagi pseudalhagi | perennial | 20-30 | F | 1 | dried |
| Alyssum desertorum | annual | 5-7 | O | + | fruiting |
| Astragalus filicaulis | annual | 10-12 | O | + | flowering |
| Bromus tectorum | Annual | 15-20 | F | 1 | Budding |
| Capsella bursa-pastoris | annual | 20-25 | F | 1 | Flowering, fruiting |

| | | | | | |
|---|---------------------|-------|---|---|------------------------|
| Carex pachystylis | perennial | 12-15 | A | 2 | fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | fruiting |
| Cichorium intybus | perennial | 15-20 | O | + | vegetation |
| Convolvulus arvensis | Perennial, liana | 10-15 | O | + | vegetation |
| Cousinia resinosa | perennial | 15-20 | R | + | vegetation |
| Cryptospora falcata (Cryptospora omissa) | annual | 15-20 | O | + | flowering |
| Descurainia sophia | annual | 20-30 | F | 1 | Flowering, fruiting |
| Draba verna (Erophila verna) | annual | 5-7 | O | + | Flowering, fruiting |
| Erodium cicutarium | annual | 10-12 | F | + | Flowering, fruiting |
| Eruca sativa | annual | 10-15 | O | + | flowering |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | F | + | flowering |
| Goldbachia torulosa | annual | 15-20 | O | - | Flowering, fruiting |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | F | 1 | vegetation |
| Hypocoum pendulum (Hypocoum parviflorum) | annual | 10-12 | O | + | flowering |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Lepidium draba | perennial | 15-20 | F | 1 | flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 10-15 | O | + | Flowering, fruiting |
| Nonea caspica | annual | 10-15 | O | + | Flowering, fruiting |
| Papaver pavoninum | annual | 10-15 | O | + | flowering |
| Phlomis thapsoides | perennial | 15-20 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | F | 1 | vegetation |
| Strigosella africana | annual | 12-15 | O | + | flowering |
| Trigonella grandiflora | annual | 15-20 | O | + | Flowering, fruiting |
| Triticum aestivum (crops) | Annual | 15-20 | D | 3 | vegetation |

Table 25. Check-list of plants recorded on sample plot 22-2024 (39.597503° N, 66.733704° E), 360 km OTHL, Pastdargom District of Samarkand Region, canal Eski Anhor, reeds and camel thorn-forb-grass community

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---|-----------|---------------|-----------|--------------------|------------------------|
| | | | DACFOR | Braun- Blanquet | |
| Achillea wilhelmsii (Achillea kermanica) | Perennial | 10-12 | O | + | vegetation |
| Alhagi pseudalhagi | Perennial | 15-20 | F | 1 | Vegetation |
| Alyssum desertorum | Annual | 5-7 | O | + | fruiting |
| Arenaria leptoclados | Annual | 10-15 | O | + | flowering |
| Astragalus filicaulis | Annual | 10-15 | O | + | Flowering |
| Bromus tectorum | Annual | 15-20 | F | 1 | Budding |
| Capsella bursa-pastoris | annual | 20-25 | F | 1 | Flowering, fruiting |

| | | | | | |
|--|-----------|---------|---|---|---------------------|
| Carex pachystylis | perennial | 7-10 | F | 1 | fruiting |
| Cichorium intybus | perennial | 10-15 | R | + | Vegetation |
| Cirsium vulgare | biennial | 20-30 | R | + | Vegetation |
| Cousinia microcarpa | biennial | 15-20 | O | + | Vegetation |
| Cousinia resinosa | perennial | 15-20 | R | + | Vegetation |
| Cryptospora falcata (Cryptospora omissa) | annual | 15-20 | O | + | flowering |
| Descurainia sophia | annual | 20-30 | F | 1 | Flowering, fruiting |
| Erodium cicutarium | annual | 12-15 | F | 1 | Flowering, fruiting |
| Eryngium caeruleum | biennial | 20-30 | R | + | dried |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | O | + | flowering |
| Holosteum umbellatum | annual | 7-10 | F | + | fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | C | 2 | Vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | flowering |
| Lamium amplexicaule | annual | 10-15 | O | + | flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 10-15 | F | + | Flowering, fruiting |
| Meniocus linifolius | annual | 7-10 | O | + | Flowering, fruiting |
| Mentha longifolia var. asiatica | perennial | 20-30 | O | + | vegetation |
| Papaver pavoninum | annual | 10-15 | O | + | flowering |
| Parentucellia flaviflora | annual | 7-10 | O | + | flowering |
| Peganum harmala | perennial | 20-30 | O | 1 | vegetation |
| Phragmites australis | perennial | 100-150 | O | + | dried |
| Plantago lanceolata | perennial | 12-15 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 1 | fruiting |
| Rosa persica (Hulthemia persica) | subshrub | 20-30 | O | + | vegetation |
| Sisymbrium altissimum | annual | 20-30 | F | 1 | Flowering, fruiting |
| Strigosella africana | annual | 12-15 | O | + | flowering |
| Taraxacum monochlamydeum | perennial | 10-12 | F | 1 | fruiting |
| Trigonella grandiflora | annual | 15-20 | F | 1 | Flowering, fruiting |
| Veronica hederifolia | annual | 10-12 | O | + | Flowering, fruiting |
| Veronica polita | annual | 10-12 | O | + | Flowering, fruiting |
| Veronica persica | annual | 10-12 | O | + | Flowering, fruiting |

Table 26. Check-list of plants recorded on sample plot 23-2024 (39.57993° N, 66.85574° E), 360 km OTHL, Pastdargom District of Samarkand Region, 5 km to the north of the village Szazagan, apple garden and camel thorn-grass community on boundary-strips

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--------------------|-----------|------------|-----------|----------------|---------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 15-20 | F | 1 | vegetation |
| Bromus scoparius | annual | 15-20 | O | + | vegetation |

| | | | | | |
|--|------------------|---------|---|---|---------------------|
| Bromus tectorum | annual | 15-20 | F | + | vegetation |
| Capparis spinosa | perennial | 30-40 | O | + | vegetation |
| Capsella bursa-pastoris | annual | 25-30 | F | + | Flowering, fruiting |
| Carduus arabicus | annual | 15-20 | O | + | budding |
| Carthamus oxyacanthus | annual | 20-30 | O | + | dried |
| Carthamus lanatus subsp. turkestanicus | annual | 30-40 | R | + | dried |
| Centaurea iberica | biennial | 10-15 | O | + | vegetation |
| Ceratocephala orthoceras | annual | 4-5 | F | + | Flowering, fruiting |
| Cichorium intybus | perennial | 10-15 | O | + | vegetation |
| Cirsium vulgare | biennial | 15-20 | R | + | vegetation |
| Convolvulus arvensis | Perennial, liana | 5-10 | F | + | vegetation |
| Cousinia microcarpa | biennial | 10-15 | O | + | vegetation |
| Descurainia sophia | annual | 25-30 | O | + | Flowering, fruiting |
| Echium biebersteinii | biennial | 30-40 | R | + | dried |
| Erodium cicutarium | annual | 10-12 | F | 1 | flowering |
| Eryngium caeruleum | biennial | 20-30 | R | + | dried |
| Holosteum umbellatum | annual | 10-15 | F | 1 | Flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 15-20 | A | 2 | vegetation |
| Lamium amplexicaule | annual | 10-15 | O | + | flowering |
| Malus domestica | tree | 250-300 | D | 4 | vegetation |
| Malva neglecta | perennial | 7-10 | O | + | Vegetation |
| Onopordum leptolepis | biennial | 15-20 | O | + | vegetation |
| Papaver pavoninum | annual | 10-15 | O | + | Budding |
| Picnemon acarna | annual | 30-40 | R | + | dried |
| Plantago lanceolata | perennial | 10-15 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | F | 1 | Flowering, fruiting |
| Rosa persica (Hulthemia persica) | subshrub | 15-20 | O | + | vegetation |
| Sisymbrium altissimum | annual | 25-30 | O | + | Flowering, fruiting |
| Sophora pachycarpa | perennial | 10-15 | R | + | vegetation |
| Xanthium spinosum | annual | 10-15 | R | + | vegetation |

Table 27. Check-list of plants recorded on sample plot 24-2024 (39.77646° N, 66.79124° E), 360 km OTHL, Akdarya District of Samarkand Region, native riparian vegetation on the floodplain on the right bank of the river Karadarya (left branch of the river Zeravshan)

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|----------------------|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Aeluropus litoralis | perennial | 15-20 | F | 1 | vegetation |
| Alhagi pseudalhagi | perennial | 30-40 | O | 1 | vegetation |
| Arenaria leptoclados | annual | 10-15 | O | + | flowering |
| Artemisia absinthium | perennial | 20-30 | R | + | vegetation |
| Asperugo procumbens | annual | 25-30 | F | 1 | Flowering, fruiting |
| Bromus scoparius | annual | 20-25 | F | 1 | vegetation |
| Bromus tectorum | annual | 15-20 | A | 1 | vegetation |

| | | | | | |
|---|---------------------|---------|---|---|---------------------|
| <i>Buglossoides arvensis</i> | annual | 20-30 | O | + | Flowering, fruiting |
| <i>Calamagrostis pseudophragmites</i> | perennial | 40-50 | O | + | vegetation |
| <i>Capsella bursa-pastoris</i> | annual | 25-30 | F | 1 | Flowering, fruiting |
| <i>Caragana halodendron</i> | shrub | 150-180 | A | 2 | vegetation |
| <i>Carduus arabicus</i> | annual | 30-40 | O | + | flowering |
| <i>Carthamus lanatus</i> subsp. <i>turkestanicus</i> | annual | 30-40 | O | + | vegetation |
| <i>Centaurea iberica</i> | biennial | 20-30 | O | + | vegetation |
| <i>Cerastium glomeratum</i> | annual | 12-15 | F | + | Flowering, fruiting |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | F | + | Flowering, fruiting |
| <i>Cichorium intybus</i> | perennial | 20-30 | O | + | vegetation |
| <i>Cirsium vulgare</i> | biennial | 30-40 | O | + | vegetation |
| <i>Conium maculatum</i> | annual, biennial | 30-40 | R | + | vegetation |
| <i>Cynanchum acutum</i> ssp. <i>sibiricum</i> | Perennial, liana | 100-150 | F | 1 | vegetation |
| <i>Descurainia sophia</i> | annual | 25-30 | F | 1 | Flowering, fruiting |
| <i>Elaeagnus andustifolia</i> | tree | 300-400 | O | 1 | vegetation |
| <i>Epilobium hirsutum</i> | perennial | 40-50 | R | + | vegetation |
| <i>Equisetum arvense</i> | perennial | 30-40 | O | + | vegetation |
| <i>Erodium cicutarium</i> | annual | 12-15 | F | 1 | Flowering, fruiting |
| <i>Euphorbia helioscopia</i> | annual | 15-20 | F | 1 | Flowering, fruiting |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-6 | F | + | Flowering, fruiting |
| <i>Galium aparine</i> | annual | 40-50 | F | 1 | Flowering, fruiting |
| <i>Glycyrrhiza glabra</i> | perennial | 50-70 | F | 1 | vegetation |
| <i>Hippophae rhamnoides</i> | shrub | 200-300 | F | 2 | vegetation |
| <i>Holosteum umbellatum</i> | annual | 12-15 | F | + | Flowering, fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 15-20 | F | 1 | vegetation |
| <i>Hornungia procumbens</i> (<i>Hymenolobus procumbens</i>) | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Karelinia caspia</i> | perennial | 40-50 | F | 1 | vegetation |
| <i>Lamium amplexicaule</i> | annual | 12-15 | F | + | Flowering |
| <i>Lepidium draba</i> | perennial | 25-30 | O | + | flowering |
| <i>Lycium dasystemum</i> | shrub | 100-150 | R | + | vegetation |
| <i>Malva neglecta</i> | biennial, perennial | 10-12 | R | + | Flowering |
| <i>Marrubium anisodon</i> | perennial | 20-30 | R | + | vegetation |
| <i>Mentha longifolia</i> var. <i>asiatica</i> | perennial | 20-30 | O | + | vegetation |
| <i>Noccaea perfoliata</i> (<i>Thlaspi perfoliatum</i>) | annual | 12-15 | F | 1 | Flowering, fruiting |
| <i>Phragmites australis</i> | perennial | 70-100 | O | 1 | vegetation |
| <i>Plantago lanceolata</i> | perennial | 15-20 | F | 1 | vegetation |
| <i>Plantago major</i> | perennial | 15-20 | F | 1 | vegetation |

| | | | | | |
|---|-------------------|---------|---|---|---------------------|
| <i>Poa bulbosa</i> | perennial | 20-25 | A | 1 | Flowering, fruiting |
| <i>Poacynum scabrum</i> (<i>Trachomitum scabrum</i>) | Perennial, liana | 100-150 | O | + | vegetation |
| <i>Polygonum argyrocoleon</i> | annual | 15-20 | O | + | vegetation |
| <i>Polygonum aviculare</i> | Annual, perennial | 15-20 | R | + | vegetation |
| <i>Potentilla reptans</i> | perennial | 10-12 | O | + | vegetation |
| <i>Puccinellia distans</i> | perennial | 30-40 | O | + | vegetation |
| <i>Rumex conglomeratus</i> | perennial | 30-40 | O | + | vegetation |
| <i>Rubus caesius</i> | shrub | 100-150 | O | 1 | vegetation |
| <i>Salix wilhelmsiana</i> | shrub | 200-250 | F | 2 | vegetation |
| <i>Scandix pecten-veneris</i> | annual | 15-20 | F | 1 | Flowering, fruiting |
| <i>Sisymbrium altissimum</i> | annual | 30-40 | O | + | Flowering, fruiting |
| <i>Sisymbrium loeselii</i> | annual | 30-40 | O | + | vegetation |
| <i>Sonchus oleraceus</i> | annual | 20-30 | R | + | vegetation |
| <i>Sophora alopecuroides</i> | perennial | 20-30 | O | + | vegetation |
| <i>Stellaria neglecta</i> | annual | 12-15 | O | + | flowering |
| <i>Strigosella africana</i> | annual | 20-30 | O | + | Flowering, fruiting |
| <i>Tamarix ramosissima</i> | shrub | 200-250 | A | 2 | vegetation |
| <i>Trifolium repens</i> | perennial | 10-15 | O | + | vegetation |
| <i>Tripidium ravennae</i> (<i>Erianthus ravennae</i>) | perennial | 200-220 | R | + | vegetation |
| <i>Typha angustifolia</i> | perennial | 150-200 | O | + | vegetation |
| <i>Typha laxmannii</i> | perennial | 100-150 | O | + | vegetation |
| <i>Veronica hederifolia</i> | annual | 10-12 | F | 1 | Flowering, fruiting |
| <i>Veronica polita</i> | annual | 10-12 | F | 1 | Flowering, fruiting |
| <i>Veronica persica</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Vulpia ciliata</i> | annual | 12-15 | F | 1 | vegetation |
| <i>Xanthium spinosum</i> | annual | 15-20 | O | + | vegetation |

Table 28. Check-list of plants recorded on sample plot 25-2024 (39.824868° N, 66.84101° E), 360 km OTHL, Akdarya District of Samarkand Region, irrigated arable lands, boundary-strips and woodland belts near the village Kumushkent

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--------------------------------|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Alhagi pseudalhagi</i> | perennial | 15-20 | O | + | vegetation |
| <i>Alyssum desertorum</i> | Annual | 5-7 | O | + | fruiting |
| <i>Asperugo procumbens</i> | annual | 25-30 | O | + | Flowering, fruiting |
| <i>Bromus tectorum</i> | annual | 15-20 | O | + | Flowering |
| <i>Capsella bursa-pastoris</i> | annual | 20-30 | F | 1 | Flowering, fruiting |
| <i>Centaurea iberica</i> | biennial | 15-20 | O | + | vegetation |
| <i>Cichorium intybus</i> | perennial | 15-20 | O | + | vegetation |
| <i>Cirsium vulgare</i> | biennial | 30-40 | O | + | vegetation |

| | | | | | |
|---|------------------|-------|---|---|---------------------|
| <i>Convolvulus arvensis</i> | Perennial, liana | 10-15 | O | + | vegetation |
| <i>Descurainia sophia</i> | annual | 20-30 | F | 1 | Flowering, fruiting |
| <i>Echium biebersteinii</i> | biennial | 25-30 | R | + | dried |
| <i>Elaeagnus andustifolia</i> | tree | 2-3 m | O | 1 | vegetation |
| <i>Erodium cicutarium</i> | annual | 12-15 | F | 1 | Flowering, fruiting |
| <i>Euphorbia helioscopia</i> | annual | 12-15 | O | + | Flowering, fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 15-20 | F | 1 | vegetation |
| <i>Lamium amplexicaule</i> | annual | 10-15 | F | + | flowering |
| <i>Malus domestica</i> | tree | 2-3 m | R | + | vegetation |
| <i>Malva neglecta</i> | perennial | 7-10 | O | + | Vegetation |
| <i>Morus alba</i> | tree | 2-3 m | O | 1 | vegetation |
| <i>Noccaea perfoliata</i> (<i>Thlaspi perfoliatum</i>) | annual | 12-15 | O | + | Flowering, fruiting |
| <i>Onopordum leptolepis</i> | biennial | 20-30 | R | + | vegetation |
| <i>Papaver pavoninum</i> | annual | 15-20 | R | + | flowering |
| <i>Plantago lanceolata</i> | perennial | 15-20 | F | 1 | vegetation |
| <i>Poa bulbosa</i> | perennial | 20-25 | A | 2 | Flowering, fruiting |
| <i>Populus afghanica</i> | tree | 5-7 m | F | 1 | flowering |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | subshrub | 20-30 | O | + | vegetation |
| <i>Rumex conglomeratus</i> | perennial | 30-40 | R | + | vegetation |
| <i>Sisymbrium altissimum</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Sisymbrium loeselii</i> | annual | 30-40 | O | + | vegetation |
| <i>Sophora alopecuroides</i> | perennial | 30-40 | R | + | vegetation |
| <i>Stellaria neglecta</i> | annual | 12-15 | O | + | flowering |
| <i>Strigosella africana</i> | annual | 12-15 | O | + | flowering |
| <i>Trifolium repens</i> | perennial | 10-15 | F | 1 | vegetation |
| <i>Ulmus pumila</i> | tree | 2-3 m | O | 1 | flowering |
| <i>Veronica hederifolia</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Veronica polita</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Veronica persica</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Xanthium spinosum</i> | annual | 25-30 | R | + | vegetation |

Table 29. Check-list of plants recorded on sample plot 26-2024 (39.87971° N, 66.98251° E), 360 km OTHL, Dzhambay District of Samarkand Region, small irrigated arable lands and woodland belts, between the village Dauchar and canal Payaryk

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | perennial | 10-15 | O | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 30-40 | O | + | vegetation |
| <i>Artemisia ferganensis</i> | perennial | 20-30 | O | + | vegetation |

| | | | | | |
|---|---------------------|---------|---|---|---------------------|
| <i>Asperugo procumbens</i> | annual | 25-30 | O | + | Flowering, fruiting |
| <i>Bromus scoparius</i> | annual | 15-20 | O | + | vegetation |
| <i>Bromus tectorum</i> | annual | 15-20 | O | + | vegetation |
| <i>Buglossoides arvensis</i> | annual | 20-30 | O | + | Flowering, fruiting |
| <i>Calamagrostis pseudophragmites</i> | perennial | 40-50 | O | + | vegetation |
| <i>Capsella bursa-pastoris</i> | annual | 25-30 | F | 1 | Flowering, fruiting |
| <i>Carthamus lanatus</i> subsp. <i>turkestanicus</i> | annual | 20-30 | O | + | vegetation |
| <i>Centaurea iberica</i> | biennial | 20-30 | O | + | vegetation |
| <i>Cichorium intybus</i> | perennial | 20-30 | F | + | vegetation |
| <i>Cirsium vulgare</i> | biennial | 30-40 | O | + | vegetation |
| <i>Clematis orientalis</i> | Perennial, liana | 100-150 | R | + | vegetation |
| <i>Convolvulus arvensis</i> | Perennial, liana | 15-20 | F | + | vegetation |
| <i>Cynanchum acutum</i> ssp. <i>sibiricum</i> | Perennial, liana | 100-150 | R | + | vegetation |
| <i>Cynodon dactylon</i> | perennial | 10-15 | F | 1 | vegetation |
| <i>Descurainia sophia</i> | annual | 20-30 | O | + | Flowering, fruiting |
| <i>Elymus repens</i> | perennial | 30-40 | O | + | vegetation |
| <i>Eryngium caeruleum</i> | Biennial, perennial | 30-40 | R | + | dried |
| <i>Euphorbia helioscopia</i> | annual | 15-20 | O | + | Flowering, fruiting |
| <i>Fallopia convolvulus</i> | Annual, liana | 70-100 | O | + | vegetation |
| <i>Galium humifusum</i> | perennial | 20-25 | O | + | vegetation |
| <i>Erodium cicutarium</i> | annual | 12-15 | O | + | Flowering, fruiting |
| <i>Geranium pusillum</i> | annual | 15-20 | R | + | Flowering |
| <i>Glycyrrhiza glabra</i> | perennial | 50-70 | F | 1 | vegetation |
| <i>Holosteum umbellatum</i> | annual | 12-15 | O | + | Flowering, fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 25-30 | F | 1 | vegetation |
| <i>Lactuca serriola</i> | annual, biennial | 25-30 | R | + | vegetation |
| <i>Lamium amplexicaule</i> | annual | 10-15 | F | + | flowering |
| <i>Lepidium draba</i> | perennial | 25-30 | O | + | Flowering, fruiting |
| <i>Lepidium latifolium</i> | perennial | 40-50 | O | + | vegetation |
| <i>Marrubium anisodon</i> | perennial | 30-40 | R | + | vegetation |
| <i>Medicago sativa</i> | perennial | 20-30 | A | 2 | vegetation |
| <i>Mentha longifolia</i> var. <i>asiatica</i> | perennial | 50-100 | O | + | vegetation |
| <i>Morus alba</i> | tree | 250-300 | R | 1 | vegetation |
| <i>Phragmites australis</i> | perennial | 100-150 | F | 1 | vegetation |
| <i>Picnemon acarna</i> | annual | 40-50 | O | + | vegetation |
| <i>Plantago lanceolata</i> | perennial | 15-25 | O | + | vegetation |
| <i>Plantago major</i> | perennial | 15-25 | O | + | vegetation |
| <i>Poa bulbosa</i> | perennial | 25-30 | A | 1 | Flowering, fruiting |

| | | | | | |
|--|-------------------|---------|---|---|---------------------|
| <i>Polygonum aviculare</i> | Annual, perennial | 15-20 | O | + | Flowering, fruiting |
| <i>Populus afghanica</i> | tree | 3-5 m | F | 2 | flowering |
| <i>Rhaponticum repens</i> (<i>Acroptilon repens</i>) | perennial | 20-30 | O | + | vegetation |
| <i>Rumex conglomeratus</i> | perennial | 30-40 | O | + | vegetation |
| <i>Scandix pecten-veneris</i> | annual | 15-20 | O | + | Flowering, fruiting |
| <i>Sisymbrium altissimum</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Sophora alopecuroides</i> | perennial | 30-40 | O | + | vegetation |
| <i>Taraxacum monochlamydeum</i> | perennial | 12-15 | O | + | fruiting |
| <i>Trifolium repens</i> | perennial | 10-15 | F | 1 | vegetation |
| <i>Typha angustifolia</i> | perennial | 100-150 | F | 1 | vegetation |
| <i>Veronica hederifolia</i> | annual | 10-12 | F | 1 | Flowering, fruiting |
| <i>Veronica polita</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Veronica persica</i> | annual | 10-12 | F | 1 | Flowering, fruiting |
| <i>Xanthium spinosum</i> | annual | 25-30 | O | + | vegetation |

Table 30. Check-list of plants recorded on sample plot 27-2024 (39.85665° N, 67.15567° E), 360 km OTHL, Dzhambay District of Samarkand Region, southern piedmonts of Khobduntau Range, 3.5 km to the northeast of the village Qongiro, dry ravine among apple gardens, rainfed arable lands and fallow lands

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | Perennial | 10-15 | O | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 15-20 | O | + | vegetation |
| <i>Alyssum desertorum</i> | annual | 5-7 | F | + | Flowering, fruiting |
| <i>Arenaria leptoclados</i> | annual | 10-15 | O | + | flowering |
| <i>Artemisia sogdiana</i> | subshrub | 10-15 | O | + | vegetation |
| <i>Astragalus bactrianus</i> | subshrub | 20-25 | R | + | vegetation |
| <i>Astragalus campylorrhynchus</i> | annual | 10-15 | R | + | Flowering, fruiting |
| <i>Astragalus filicaulis</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Bromus danthoniae</i> | annual | 10-15 | O | + | vegetation |
| <i>Bromus tectorum</i> | annual | 15-20 | O | + | Vegetation |
| <i>Capparis spinosa</i> | perennial | 15-20 | R | + | Vegetation |
| <i>Carex pachystylis</i> | perennial | 7-10 | A | 2 | Flowering, fruiting |
| <i>Carthamus lanatus</i> subsp. <i>turkestanicus</i> | annual | 20-30 | O | + | vegetation |
| <i>Centaurea iberica</i> | biennial | 15-20 | O | + | Vegetation |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | F | + | Flowering, fruiting |
| <i>Cousinia radians</i> | biennial | 15-20 | O | + | Vegetation |
| <i>Cousinia resinosa</i> | perennial | 20-25 | O | + | Vegetation |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Cullen drupaceum (Psoralea drupacea) | perennial | 20-25 | F | 1 | Vegetation |
| Draba verna (Erophila verna) | annual | 5-7 | F | 1 | Flowering, fruiting |
| Erodium cicutarium | annual | 10-15 | F | 1 | Flowering |
| Gagea olgae | perennial | 5-7 | F | + | Flowering |
| Haplophyllum versicolor | perennial | 5-10 | R | + | Vegetation |
| Holosteum umbellatum | annual | 7-10 | F | + | Flowering, fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 10-15 | O | + | Vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Koelpinia linearis | annual | 10-15 | R | + | Flowering |
| Malva neglecta | perennial | 7-10 | O | + | Vegetation |
| Papaver pavoninum | annual | 10-15 | O | + | Budding |
| Peganum harmala | perennial | 15-20 | R | + | vegetation |
| Poa bulbosa | perennial | 15-20 | A | 1 | Flowering, fruiting |
| Plantago lanceolata | perennial | 5-10 | O | + | Vegetation |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Sophora pachycarpa | perennial | 15-20 | R | + | Vegetation |
| Strigosella africana | annual | 10-15 | R | + | Flowering |
| Taraxacum monochlamydeum | perennial | 10-12 | O | + | flowering |
| Xanthium spinosum | annual | 20-30 | R | + | Vegetation |

Table 31. Check-list of plants recorded on sample plot 28-2024, (39.82803° N, 67.26876° E), 360 km OTHL, Bulungur District of Samarkand Region, southern piedmonts of Khobduntau Range, 3 km to the north of the village Gatcha, rainfed arable lands and fallow lands

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|------------------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 15-20 | O | + | vegetation |
| Astragalus bactrianus | subshrub | 20-25 | R | + | vegetation |
| Astragalus alopecias | perennial | 30-40 | R | + | vegetation |
| Astragalus filicaulis | annual | 10-15 | O | + | Flowering, fruiting |
| Bromus scoparius | annual | 15-20 | O | + | budding |
| Bromus tectorum | annual | 15-20 | O | + | budding |
| Capparis spinosa | perennial | 30-40 | R | + | vegetation |
| Carex pachystylis | perennial | 7-10 | F | 1 | fruiting |
| Carthamus oxyacanthus | annual | 20-25 | O | + | vegetation |
| Carthamus lanatus subsp. turkestanicus | annual | 30-40 | O | + | vegetation |
| Centaurea belangeriana | annual, biennial | 20-25 | O | + | vegetation |
| Centaurea iberica | biennial | 20-25 | O | + | vegetation |
| Centaurea solstitialis | annual | 20-25 | R | + | vegetation |
| Centaurea virgata subsp. squarrosa | perennial | 30-40 | O | + | vegetation |
| Ceratocarpus arenarius | annual | 5-10 | R | + | vegetation |
| Ceratocephala orthoceras | annual | 4-5 | O | + | Flowering, fruiting |
| Cichorium intybus | perennial | 20-25 | O | + | vegetation |

| | | | | | |
|---|---------------------|-------|---|---|---------------------|
| <i>Convolvulus arvensis</i> | Perennial, liana | 10-15 | O | + | Flowering |
| <i>Convolvulus pseudocantabrica</i> | perennial | 30-40 | R | + | vegetation |
| <i>Cousinia radians</i> | biennial | 15-20 | O | + | vegetation |
| <i>Cullen drupaceum</i> (<i>Psoralea drupacea</i>) | perennial | 15-20 | R | + | Vegetation |
| <i>Cynodon dactylon</i> | perennial | 10-15 | O | + | vegetation |
| <i>Dodartia orientalis</i> | perennial | 25-30 | R | + | vegetation |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | F | 1 | fruiting |
| <i>Erodium cicutarium</i> | annual | 10-15 | F | 1 | Flowering |
| <i>Eryngium caeruleum</i> | Biennial, perennial | 15-20 | O | + | vegetation |
| <i>Euclidium syriacum</i> | annual | 10-15 | R | + | flowering |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | perennial | 10-12 | O | + | flowering |
| <i>Gagea olgae</i> | perennial | 5-7 | O | + | fruiting |
| <i>Haplophyllum acutifolium</i> | perennial | 20-30 | R | + | vegetation |
| <i>Haplophyllum versicolor</i> | perennial | 15-20 | O | + | vegetation |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 20-25 | O | + | flowering |
| <i>Ixiolirion tataricum</i> | perennial | 15-20 | O | + | Vegetation |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Onopordum leptolepis</i> | biennial | 20-30 | R | + | vegetation |
| <i>Papaver pavoninum</i> | annual | 20-25 | O | + | flowering |
| <i>Parentucellia flaviflora</i> | annual | 7-10 | O | + | flowering |
| <i>Peganum harmala</i> | perennial | 15-20 | R | + | vegetation |
| <i>Phleum paniculatum</i> | annual | 12-15 | R | + | flowering |
| <i>Picnomon acarna</i> | annual | 15-20 | O | + | vegetation |
| <i>Plantago lanceolata</i> | perennial | 10-15 | O | + | flowering |
| <i>Poa bulbosa</i> | perennial | 20-25 | C | 1 | fruiting |
| <i>Ranunculus sewerzowii</i> | perennial | 5-7 | O | + | vegetation |
| <i>Rhaponticum repens</i> (<i>Acroptilon repens</i>) | perennial | 15-20 | R | + | vegetation |
| <i>Roemeria refracta</i> | annual | 20-25 | O | + | flowering |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | subshrub | 15-20 | O | + | vegetation |
| <i>Salvia spinosa</i> | perennial | 25-30 | R | + | vegetation |
| <i>Sisymbrium altissimum</i> | annual | 25-30 | R | + | Flowering, fruiting |
| <i>Sophora pachycarpa</i> | perennial | 20-25 | O | + | vegetation |
| <i>Turgenia latifolia</i> | annual | 10-15 | R | + | vegetation |
| <i>Xanthium spinosum</i> | annual | 20-25 | R | + | vegetation |

Table 32. Check-list of plants recorded on sample plot 29-2024 (39.877729° N, 67.507534° E), 360 km OTHL, Bakhmal District of Dzhizak Region, western piedmonts of Turkestan Range, surroundings of the village Khonimkorgon, apple garden among rainfed arable lands

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | Perennial | 10-15 | O | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 15-20 | O | + | vegetation |
| <i>Arenaria leptoclados</i> | annual | 10-15 | O | + | flowering |

| | | | | | |
|---|------------------|---------|---|---|---------------------|
| <i>Artemisia serotina</i> | perennial | 15-20 | O | + | vegetation |
| <i>Astragalus campylotrichus</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Astragalus filicaulis</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Bromus tectorum</i> | annual | 15-20 | O | + | vegetation |
| <i>Capsella bursa-pastoris</i> | annual | 20-30 | O | + | Flowering, fruiting |
| <i>Capparis spinosa</i> | perennial | 30-40 | R | + | vegetation |
| <i>Carex pachystylis</i> | perennial | 7-10 | F | 1 | fruiting |
| <i>Centaurea iberica</i> | biennial | 10-15 | R | + | vegetation |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | perennial | 10-15 | O | + | vegetation |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | O | + | Flowering, fruiting |
| <i>Cichorium intybus</i> | perennial | 10-15 | R | + | vegetation |
| <i>Cirsium vulgare</i> | biennial | 20-30 | R | + | vegetation |
| <i>Convolvulus arvensis</i> | Perennial, liana | 5-10 | F | + | vegetation |
| <i>Descurainia sophia</i> | annual | 20-30 | R | + | Flowering, fruiting |
| <i>Draba nuda</i> | Annual | 5-7 | O | + | fruiting |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | F | + | fruiting |
| <i>Echium biebersteinii</i> | biennial | 30-40 | O | + | dried |
| <i>Erodium cicutarium</i> | annual | 10-12 | O | + | flowering |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | perennial | 10-12 | O | + | flowering |
| <i>Handelia trichophylla</i> | perennial | 30-40 | R | + | vegetation |
| <i>Holosteum umbellatum</i> | annual | 10-15 | F | 1 | Flowering |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 15-20 | A | 2 | vegetation |
| <i>Hypocoum pendulum</i> | annual | 15-20 | R | + | Flowering, fruiting |
| <i>Ixiolirion tataricum</i> | perennial | 15-20 | O | + | Vegetation |
| <i>Lamium amplexicaule</i> | annual | 10-15 | O | + | flowering |
| <i>Malus domestica</i> | tree | 250-300 | D | 4 | vegetation |
| <i>Malva neglecta</i> | perennial | 7-10 | R | + | Vegetation |
| <i>Morus alba</i> | tree | 300-350 | R | 1 | vegetation |
| <i>Papaver pavoninum</i> | annual | 10-15 | O | + | Budding |
| <i>Phleum paniculatum</i> | annual | 12-15 | R | + | flowering |
| <i>Plantago lanceolata</i> | perennial | 10-15 | O | + | flowering |
| <i>Poa bulbosa</i> | perennial | 15-20 | A | 1 | Flowering, fruiting |
| <i>Prunus armeniaca</i> (<i>Armeniaca vulgaris</i>) | tree | 300-350 | R | 1 | flowering |
| <i>Prunus cerasifera</i> | shrub | 200-250 | R | 1 | flowering |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | subshrub | 20-30 | R | + | vegetation |
| <i>Sisymbrium altissimum</i> | annual | 20-30 | R | + | budding |
| <i>Sophora pachycarpa</i> | perennial | 10-15 | O | + | vegetation |
| <i>Taraxacum monochlamydeum</i> | perennial | 10-12 | O | + | flowering |
| <i>Trifolium repens</i> | perennial | 10-15 | O | + | flowering |
| <i>Veronica polita</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Veronica persica</i> | annual | 10-12 | O | + | Flowering, fruiting |

Table 33. Check-list of plants recorded on sample plot 30-2024 (39.915786° N, 67.530745° E), 360 km OTHL, Bakhmal District of Dzhizak Region, western piedmonts of Turkestan Range, surroundings of the village Gallakor, rainfed arable lands

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|---|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | Perennial | 10-15 | O | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 15-20 | O | + | vegetation |
| <i>Alyssum desertorum</i> | annual | 5-7 | O | + | fruiting |
| <i>Astragalus filicaulis</i> | annual | 10-15 | O | + | flowering |
| <i>Carex pachystylis</i> | perennial | 7-10 | F | 1 | fruiting |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | O | + | fruiting |
| <i>Cousinia radians</i> | biennial | 15-20 | O | + | vegetation |
| <i>Cousinia resinosa</i> | perennial | 15-20 | R | + | vegetation |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | O | + | fruiting |
| <i>Erodium cicutarium</i> | annual | 10-12 | O | + | flowering |
| <i>Gagea graminifolia</i> | perennial | 4-5 | R | + | flowering |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | perennial | 10-12 | O | + | flowering |
| <i>Gagea olgae</i> | perennial | 5-7 | O | + | fruiting |
| <i>Gentiana olivieri</i> | perennial | 5-7 | O | + | vegetation |
| <i>Handelia trichophylla</i> | perennial | 30-40 | R | + | vegetation |
| <i>Haplophyllum versicolor</i> | perennial | 15-20 | R | + | vegetation |
| <i>Holosteum umbellatum</i> | annual | 7-10 | O | + | fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 15-20 | O | + | flowering |
| <i>Ixiolirion tataricum</i> | perennial | 10-15 | O | + | vegetation |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 5-7 | F | + | Flowering, fruiting |
| <i>Papaver pavoninum</i> | annual | 10-15 | R | + | flowering |
| <i>Parentucellia flaviflora</i> | annual | 7-10 | O | + | flowering |
| <i>Plantago lanceolata</i> | perennial | 10-15 | O | + | flowering |
| <i>Poa bulbosa</i> | perennial | 20-25 | F | 1 | Fruiting |
| <i>Ranunculus sewerzowii</i> | perennial | 5-7 | F | + | vegetation |
| <i>Rosa persica</i> (<i>Hulthemia persica</i>) | subshrub | 20-30 | R | + | vegetation |
| <i>Triticum aestivum</i> (crops) | Annual | 15-20 | D | 4 | vegetation |
| <i>Veronica polita</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Veronica persica</i> | annual | 10-12 | O | + | Flowering, fruiting |

Table 34. Check-list of plants recorded on sample plot 31-2024 (40.06872° N, 67.56588° E), 360 km OTHL, Gallal District of Dzhizak Region, between town Gallaaral and village Karakchi, woodland belt and rainfed arable lands

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Achillea wilhelmsii</i> (<i>Achillea kermanica</i>) | Perennial | 10-15 | O | + | vegetation |

| | | | | | |
|---|------------------|---------|---|---|---------------------|
| <i>Alhagi pseudalhagi</i> | perennial | 15-20 | F | 1 | vegetation |
| <i>Alyssum desertorum</i> | annual | 5-7 | O | + | fruiting |
| <i>Astragalus filicalis</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Bromus danthoniae</i> | annual | 10-15 | O | + | flowering |
| <i>Bromus scoparius</i> | annual | 15-20 | O | + | flowering |
| <i>Bromus tectorum</i> | annual | 15-20 | O | + | flowering |
| <i>Capparis spinosa</i> | perennial | 30-40 | R | + | vegetation |
| <i>Carex pachystylis</i> | perennial | 7-10 | F | 1 | fruiting |
| <i>Carthamus oxyacanthus</i> | annual | 15-20 | O | + | vegetation |
| <i>Centaurea belangeriana</i> | annual, biennial | 15-20 | O | + | vegetation |
| <i>Centaurea iberica</i> | biennial | 15-20 | O | + | vegetation |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | O | + | fruiting |
| <i>Cichorium intybus</i> | perennial | 15-20 | O | + | vegetation |
| <i>Convolvulus arvensis</i> | Perennial, liana | 10-15 | O | + | flowering |
| <i>Convolvulus pseudocantabrica</i> | perennial | 30-40 | O | + | vegetation |
| <i>Cousinia microcarpa</i> | biennial | 15-20 | R | + | vegetation |
| <i>Cousinia radians</i> | biennial | 15-20 | R | + | vegetation |
| <i>Cousinia resinosa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Cullen drupaceum</i> (<i>Psoralea drupacea</i>) | perennial | 15-20 | O | + | Vegetation |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | O | + | fruiting |
| <i>Echium biebersteinii</i> | biennial | 15-20 | O | + | vegetation |
| <i>Erodium cicutarium</i> | annual | 10-12 | O | + | flowering |
| <i>Euclidium syriacum</i> | annual | 10-15 | O | + | flowering |
| <i>Fraxinus angustifolia</i> subsp. <i>syriaca</i> | tree | 4-5 m | R | 1 | vegetation |
| <i>Gagea kunawurensis</i> (<i>Gagea stipitata</i>) | perennial | 10-12 | O | + | flowering |
| <i>Gentiana olivieri</i> | perennial | 5-7 | O | + | vegetation |
| <i>Handelia trichophylla</i> | perennial | 30-40 | R | + | vegetation |
| <i>Haplophyllum acutifolium</i> | perennial | 15-20 | R | + | vegetation |
| <i>Holosteum umbellatum</i> | annual | 7-10 | O | + | fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 15-20 | O | + | flowering |
| <i>Ixiolirion tataricum</i> | perennial | 10-15 | O | + | vegetation |
| <i>Lamium amplexicaule</i> | annual | 10-15 | O | + | flowering |
| <i>Marrubium anisodon</i> | perennial | 20-30 | R | + | vegetation |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 5-7 | F | + | Flowering, fruiting |
| <i>Onopordum leptolepis</i> | biennial | 20-25 | O | + | vegetation |
| <i>Papaver pavoninum</i> | annual | 10-15 | O | + | flowering |
| <i>Parentucellia flaviflora</i> | annual | 7-10 | O | + | flowering |
| <i>Plantago lanceolata</i> | perennial | 10-15 | O | + | flowering |
| <i>Poa bulbosa</i> | perennial | 20-25 | F | 1 | Fruiting |
| <i>Prunus bucharica</i> (<i>Amygdalus bucharica</i>) | shrub | 200-250 | O | + | flowering |
| <i>Ranunculus sewerzowii</i> | perennial | 5-7 | O | + | vegetation |
| <i>Rhaponticum repens</i> (<i>Acroptilon repens</i>) | perennial | 20-25 | O | + | vegetation |
| <i>Roemeria refracta</i> | annual | 20-25 | O | + | flowering |

| | | | | | |
|------------------------|--------|-------|---|---|---------------------|
| Sisymbrium altissimum | annual | 30-40 | O | + | Flowering, fruiting |
| Trigonella grandiflora | Annual | 10-15 | O | + | flowering |
| Turgenia latifolia | annual | 10-15 | O | + | vegetation |
| Veronica campylopoda | annual | 10-12 | O | + | Flowering, fruiting |
| Veronica polita | annual | 10-12 | O | + | Flowering, fruiting |
| Ulmus pumila | tree | 3-5 m | F | 2 | vegetation |
| Xanthium spinosum | annual | 15-20 | O | + | vegetation |

Table 35. Check-list of plants recorded on sample plot 32-2024 (40.112765° N, 67.64559° E), 360 km OTHL, Gallalal District of Dzhizak Region, southern slope of Nuratau Range, intensively grazed foothills with native camel thorn-ephemeroid vegetation

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Alhagi pseudalhagi | perennial | 20-30 | F | 1 | dried |
| Allium griffithianum | perennial | 12-15 | O | + | flowering |
| Alyssum desertorum | annual | 5-7 | O | + | fruiting |
| Arenaria leptoclados | annual | 10-15 | O | + | flowering |
| Artemisia sogdiana | perennial | 15-20 | O | + | vegetation |
| Astragalus bactrianus | subshrub | 20-25 | R | + | vegetation |
| Astragalus filicaulis | annual | 10-15 | O | + | Flowering, fruiting |
| Bromus tectorum | annual | 10-15 | O | + | flowering |
| Capparis spinosa | perennial | 30-40 | R | + | vegetation |
| Carex pachystylis | perennial | 10-12 | D | 3 | Flowering, fruiting |
| Centaurea virgata subsp. squarrosa | perennial | 15-20 | O | + | vegetation |
| Ceratocephala orthoceras | annual | 4-5 | O | + | fruiting |
| Cousinia microcarpa | biennial | 15-20 | R | + | vegetation |
| Cousinia radians | biennial | 15-20 | R | + | vegetation |
| Cousinia resinosa | perennial | 10-15 | R | + | vegetation |
| Draba nuda | annual | 5-7 | O | + | fruiting |
| Draba verna (Erophila verna) | annual | 5-7 | F | 1 | fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | F | 1 | flowering |
| Gagea olgae | perennial | 5-7 | F | 1 | flowering |
| Gentiana olivieri | perennial | 5-7 | O | + | vegetation |
| Holosteum umbellatum | annual | 7-10 | O | + | flowering |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 10-15 | F | 1 | vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | F | + | Flowering |
| Minuartia meyeri | annual | 5-7 | O | + | vegetation |
| Parentucellia flaviflora | annual | 7-10 | O | + | flowering |
| Poa bulbosa | perennial | 15-20 | A | 2 | Fruiting |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |

Table 36. Check-list of plants recorded on sample plot 33-2024 (40.1459° N, 67.69066° E), 360 km OTHL, Sharaf Rashidov District of Dzhizak Region, 3 km to the south of the village Kuyovboshi, northern slope of Nuratau Range with native sagebrush-forb-grass-spiny almond community

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Acanthophyllum pungens</i> | perennial | 25-30 | R | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 20-30 | R | 1 | dried |
| <i>Allium filidens</i> | perennial | 15-20 | R | + | vegetation |
| <i>Alyssum desertorum</i> | annual | 5-7 | F | + | fruiting |
| <i>Arenaria leptoclados</i> | annual | 10-15 | F | + | flowering |
| <i>Artemisia sogdiana</i> | perennial | 20-30 | C | 1 | vegetation |
| <i>Astragalus bactrianus</i> | subshrub | 20-30 | O | + | vegetation |
| <i>Astragalus filicaulis</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Bromus danthoniae</i> | annual | 10-15 | O | + | flowering |
| <i>Bromus tectorum</i> | annual | 15-20 | O | + | flowering |
| <i>Capparis spinosa</i> | perennial | 30-40 | R | + | vegetation |
| <i>Carex pachystylis</i> | perennial | 10-12 | A | 2 | Flowering, fruiting |
| <i>Centaurea virgata</i> subsp. <i>squarrosa</i> | perennial | 15-20 | O | + | vegetation |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | O | + | fruiting |
| <i>Clypeola jonthlaspi</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Cousinia radians</i> | biennial | 15-20 | O | + | vegetation |
| <i>Dianthus helenae</i> | perennial | 15-20 | O | + | vegetation |
| <i>Draba nuda</i> | annual | 5-7 | O | + | fruiting |
| <i>Draba verna</i> (<i>Erophila verna</i>) | annual | 5-7 | O | + | fruiting |
| <i>Erodium cicutarium</i> | annual | 10-12 | O | + | flowering |
| <i>Gagea chomutovae</i> | perennial | 15-20 | R | + | flowering |
| <i>Gagea graminifolia</i> | perennial | 4-5 | F | 1 | flowering |
| <i>Gagea olgae</i> | perennial | 5-7 | O | 1 | flowering |
| <i>Gentiana olivieri</i> | perennial | 5-7 | O | + | vegetation |
| <i>Haplophyllum acutifolium</i> | perennial | 15-20 | R | + | vegetation |
| <i>Holosteum umbellatum</i> | annual | 7-10 | O | + | flowering |
| <i>Hypericum scabrum</i> | perennial | 15-20 | R | + | vegetation |
| <i>Ixiolirion tataricum</i> | perennial | 10-15 | O | + | Vegetation |
| <i>Litwinowia tenuissima</i> | annual | 15-20 | R | + | Flowering, fruiting |
| <i>Medicago monantha</i> (<i>Trigonella geminiflora</i>) | annual | 5-7 | F | + | Flowering |
| <i>Minuartia meyeri</i> | annual | 5-7 | O | + | vegetation |
| <i>Nanophyton saxatile</i> | subshrub | 10-15 | R | + | vegetation |
| <i>Noccaea perfoliata</i> (<i>Thlaspi perfoliatum</i>) | annual | 12-15 | O | + | Flowering, fruiting |
| <i>Phleum paniculatum</i> | annual | 12-15 | O | + | flowering |
| <i>Phlomis nubilans</i> | perennial | 25-30 | O | + | vegetation |
| <i>Poa bulbosa</i> | perennial | 15-20 | A | 2 | Fruiting |
| <i>Prunus</i> (<i>Amygdalus</i>) <i>spinosissima</i> | shrub | 100-150 | C | 2 | flowering |
| <i>Ranunculus sewerzowii</i> | perennial | 15-20 | R | + | flowering |

| | | | | | |
|--|-----------|-------|---|---|---------------------|
| Thinopyrum intermedium (Elytrigia trichophora) | perennial | 15-20 | O | + | vegetation |
| Veronica campylopoda | annual | 10-12 | O | + | Flowering, fruiting |
| Ziziphora clinopodioides | perennial | 20-25 | O | + | vegetation |

Table 37. Check-list of plants recorded on sample plot 34-2024 (40.16754° N 67.694° E), 360 km OTHL, Sharaf Rashidov District of Dzhizak Region, 1.5 km to the west of the village Kuyovboshi, northern piedmonts of Nuratau Range, caper-ephemeroïd-sagebrush community

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Acanthophyllum pungens | perennial | 25-30 | R | + | vegetation |
| Alhagi pseudalhagi | perennial | 20-30 | R | + | dried |
| Allium griffithianum | perennial | 12-15 | O | + | flowering |
| Alyssum desertorum | annual | 5-7 | O | + | fruiting |
| Aphanopleura capillifolia | annual | 10-15 | O | + | vegetation |
| Arenaria leptoclados | annual | 10-15 | O | + | flowering |
| Artemisia sogdiana | perennial | 15-20 | A | 2 | vegetation |
| Astragalus bactrianus | subshrub | 20-25 | R | + | vegetation |
| Astragalus filicaulis | annual | 10-15 | O | + | Flowering, fruiting |
| Bromus danthoniae | annual | 10-15 | O | + | flowering |
| Bromus tectorum | annual | 10-15 | O | + | flowering |
| Capparis spinosa | perennial | 30-40 | F | 1 | vegetation |
| Carex pachystylis | perennial | 10-12 | D | 3 | Flowering, fruiting |
| Ceratocephala orthoceras | annual | 4-5 | O | + | fruiting |
| Cousinia resinosa | perennial | 10-15 | R | + | vegetation |
| Draba nuda | annual | 5-7 | O | + | fruiting |
| Draba verna (Erophila verna) | annual | 5-7 | F | 1 | fruiting |
| Erodium cicutarium | annual | 10-12 | O | + | flowering |
| Gagea graminifolia | perennial | 4-5 | F | 1 | flowering |
| Gagea kunawurensis (Gagea stipitata) | perennial | 10-12 | O | + | flowering |
| Gagea olgae | perennial | 5-7 | F | 1 | fruiting |
| Gentiana olivieri | perennial | 5-7 | O | + | vegetation |
| Holosteum umbellatum | annual | 7-10 | O | + | fruiting |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 10-15 | O | + | vegetation |
| Iris narbutii (Juno narbutii) | perennial | 10-15 | O | + | Vegetation |
| Ixiolirion tataricum | perennial | 10-15 | O | + | Vegetation |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering |
| Medicago monantha (Trigonella geminiflora) | annual | 5-7 | O | + | Flowering |
| Minuartia meyeri | annual | 5-7 | O | + | vegetation |
| Parentucellia flaviflora | annual | 7-10 | O | + | flowering |
| Phlomis thapsoides | perennial | 30-40 | O | + | vegetation |
| Poa bulbosa | perennial | 15-20 | C | 2 | Fruiting |
| Ranunculus pinnatisectus | perennial | 15-20 | R | + | flowering |
| Ranunculus sewerzowii | perennial | 5-7 | O | + | vegetation |
| Silene conica | annual | 12-15 | O | + | flowering |

| | | | | | |
|----------------------|--------|-------|---|---|---------------------|
| Veronica campylopoda | annual | 10-12 | O | + | Flowering, fruiting |
|----------------------|--------|-------|---|---|---------------------|

Table 38. Check-list of plants recorded on sample plot 35-2024 (40.5548° N, 68.61285° E), 360 km OTHL, Mirzaabad District of Syrdarya Region, drainage channel with camel thorn-reed-liquorice community, between irrigated arable lands and highway

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|------------------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Achillea wilhelmsii (Achillea kermanica) | Perennial | 15-20 | R | + | vegetation |
| Aegilops triuncialis | annual | 20-25 | O | + | Flowering |
| Aeluropus littoralis | perennial | 15-20 | O | + | Flowering |
| Alhagi pseudalhagi | perennial | 30-40 | A | 2 | vegetation |
| Atriplex micrantha | annual | 15-20 | O | + | vegetation |
| Bolboschoenus maritimus | perennial | 40-50 | O | + | Flowering |
| Bromus danthoniae | annual | 12-15 | O | + | flowering |
| Bromus scoparius | annual | 15-20 | F | 1 | flowering |
| Bromus tectorum | annual | 15-20 | A | 1 | flowering |
| Capsella bursa-pastoris | annual | 20-30 | O | + | Flowering, fruiting |
| Carduus arabicus | annual | 25-30 | O | + | flowering |
| Carthamus lanatus subsp. turkestanicus | annual | 50-70 | O | + | vegetation |
| Centaurea iberica | biennial | 20-30 | O | + | vegetation |
| Ceratocephala orthoceras | annual | 4-5 | O | + | fruiting |
| Cirsium vulgare | biennial | 50-100 | R | + | vegetation |
| Convolvulus arvensis | Perennial, liana | 10-15 | O | + | flowering |
| Cynanchum acutum ssp. sibiricum | Perennial, liana | 100-150 | R | + | vegetation |
| Cynodon dactylon | perennial | 15-20 | F | 1 | vegetation |
| Descurainia sophia | annual | 25-30 | F | + | Flowering, fruiting |
| Dodartia orientalis | perennial | 30-40 | O | + | flowering |
| Eremopyrum triticeum | annual | 12-15 | O | + | flowering |
| Erodium cicutarium | annual | 12-15 | O | + | Flowering, fruiting |
| Eruca sativa | annual | 20-25 | R | + | flowering |
| Euphorbia helioscopia | annual | 15-20 | O | + | Flowering, fruiting |
| Frankenia pulverulenta | annual | 10-15 | O | + | flowering |
| Galium aparine | annual | 40-50 | F | 1 | Flowering, fruiting |
| Glycyrrhiza glabra | perennial | 100-150 | A | 3 | vegetation |
| Hordeum murinum subsp. leporinum (Hordeum leporinum) | annual | 25-35 | F | 1 | flowering |
| Hornungia procumbens (Hymenolobus procumbens) | annual | 10-15 | O | + | Flowering, fruiting |
| Karelinia caspia | perennial | 40-40 | F | 1 | vegetation |
| Lactuca serriola | annual, biennial | 30-40 | O | + | vegetation |

| | | | | | |
|---|------------------|---------|---|---|---------------------|
| Lepidium draba | perennial | 25-30 | O | + | Flowering, fruiting |
| Lepidium latifolium | perennial | 40-50 | O | + | vegetation |
| Leptaleum filifolium | annual | 5-7 | O | + | Flowering, fruiting |
| Limonium otolepis | perennial | 30-40 | C | 1 | Flowering |
| Morus alba | tree | 250-300 | R | 1 | vegetation |
| Papaver pavoninum | annual | 15-20 | O | + | flowering |
| Phleum paniculatum | annual | 15-20 | O | + | flowering |
| Phragmites australis | perennial | 100-150 | C | 2 | vegetation |
| Plantago lanceolata | perennial | 15-25 | O | + | Flowering |
| Plantago major | perennial | 15-25 | O | + | Flowering |
| Poa bulbosa | perennial | 20-30 | F | 1 | fruiting |
| Polypogon monspeliensis | annual | 15-20 | O | + | Flowering |
| Psylliostachys suworowii | annual | 15-25 | O | + | flowering |
| Puccinellia distans | perennial | 30-40 | O | + | flowering |
| Rumex conglomeratus | perennial | 40-50 | R | + | vegetation |
| Sisymbrium altissimum | annual | 30-40 | F | 1 | Flowering, fruiting |
| Sisymbrium loeselii | Annual, biennial | 30-40 | O | + | Flowering, fruiting |
| Strigosella africana | annual | 12-15 | O | + | Flowering, fruiting |
| Strigosella stenopetala | annual | 12-15 | R | + | Flowering, fruiting |
| Tamarix hohenackeri | shrub | 70-100 | R | + | flowering |
| Tamarix ramosissima | shrub | 70-100 | O | 1 | vegetation |
| Tripidium ravennae (Erianthus ravennae) | perennial | 200-220 | R | + | vegetation |
| Typha angustifolia | perennial | 100-150 | O | + | vegetation |
| Veronica polita | annual | 10-12 | O | + | Flowering, fruiting |
| Xanthium spinosum | annual | 25-30 | O | + | vegetation |
| Xanthium orientale | annual | 15-20 | O | + | vegetation |
| Zygophyllum oxianum | perennial | 30-40 | O | + | vegetation |

Table 39. Check-list of plants recorded for riparian scrub on sample plot 36-2024 (40.81739° N, 68.82465° E), 360 km OTHL, Syrdarya District of Syrdarya Region, left bank of Syrdarya River

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|-----------------------|-----------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| Aegilops cylindrica | annual | 20-25 | O | + | Flowering, fruiting |
| Aegilops triuncialis | annual | 20-25 | F | 1 | Flowering, fruiting |
| Alhagi pseudalhagi | perennial | 30-40 | F | 1 | vegetation |
| Alyssum desertorum | Annual | 5-7 | O | + | fruiting |
| Arenaria leptoclados | annual | 10-15 | O | + | flowering |
| Artemisia ferganensis | perennial | 30-40 | R | + | vegetation |
| Bromus scoparius | annual | 20-30 | O | + | flowering |
| Bromus tectorum | Annual | 20-25 | F | 1 | flowering |
| Capparis spinosa | perennial | 30-40 | R | + | vegetation |

| | | | | | |
|---|------------------|---------|---|---|---------------------|
| <i>Capsella bursa-pastoris</i> | annual | 20-30 | O | + | Flowering, fruiting |
| <i>Caragana halodendron</i> | shrub | 100-150 | F | 2 | flowering |
| <i>Carthamus lanatus</i> subsp. <i>turkestanicus</i> | annual | 25-30 | O | + | vegetation |
| <i>Centaurea iberica</i> | biennial | 20-30 | O | + | vegetation |
| <i>Ceratocephala orthoceras</i> | annual | 4-5 | O | + | fruiting |
| <i>Cichorium intybus</i> | perennial | 20-30 | R | + | vegetation |
| <i>Cirsium vulgare</i> | biennial | 40-50 | O | + | vegetation |
| <i>Clematis orientalis</i> | Perennial, liana | 100-150 | O | + | vegetation |
| <i>Convolvulus arvensis</i> | Perennial, liana | 10-15 | O | + | flowering |
| <i>Cynanchum acutum</i> ssp. <i>sibiricum</i> | Perennial, liana | 100-150 | R | + | vegetation |
| <i>Cynodon dactylon</i> | perennial | 15-20 | F | 1 | vegetation |
| <i>Descurainia sophia</i> | annual | 30-40 | O | + | Flowering, fruiting |
| <i>Dodartia orientalis</i> | perennial | 30-40 | O | + | flowering |
| <i>Elaeagnus angustifolia</i> | tree | 250-300 | F | 2 | flowering |
| <i>Equisetum ramosissimum</i> | perennial | 20-30 | R | + | vegetation |
| <i>Erodium cicutarium</i> | annual | 10-15 | F | + | Flowering, fruiting |
| <i>Euphorbia helioscopia</i> | annual | 15-20 | O | + | Flowering, fruiting |
| <i>Fallopia convolvulus</i> | Annual, liana | 100-150 | O | + | vegetation |
| <i>Galium spurium</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Geranium pusillum</i> | annual | 15-20 | O | + | Flowering |
| <i>Glycyrrhiza glabra</i> | perennial | 40-50 | O | + | vegetation |
| <i>Holosteum umbellatum</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 25-35 | F | 1 | flowering |
| <i>Hordeum spontaneum</i> | annual | 50-70 | O | + | flowering |
| <i>Hornungia procumbens</i> (<i>Hymenolobus procumbens</i>) | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Karelinia caspia</i> | perennial | 50-70 | O | + | vegetation |
| <i>Lactuca serriola</i> | annual, biennial | 30-40 | O | + | vegetation |
| <i>Lamium amplexicaule</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Lepidium draba</i> | perennial | 25-30 | O | + | Flowering, fruiting |
| <i>Limonium otolepis</i> | perennial | 30-40 | R | + | Flowering |
| <i>Lycium dasystemum</i> | shrub | 50-100 | R | + | Flowering |
| <i>Nonea caspica</i> | annual | 10-15 | R | + | Flowering |
| <i>Papaver pavoninum</i> | annual | 15-20 | O | + | flowering |
| <i>Peganum harmala</i> | perennial | 25-35 | R | + | flowering |
| <i>Phragmites australis</i> | perennial | 70-100 | O | 1 | vegetation |
| <i>Plantago lanceolata</i> | perennial | 15-25 | O | + | Flowering |
| <i>Plantago major</i> | perennial | 15-25 | O | + | Flowering |
| <i>Poa bulbosa</i> | perennial | 25-30 | A | 1 | fruiting |
| <i>Poacynum lancifolium</i> (<i>Trachomitum lancifolium</i>) | perennial | 100-150 | O | + | flowering |

| | | | | | |
|---|-------------------|---------|---|---|---------------------|
| <i>Polygonum aviculare</i> | Annual, perennial | 10-15 | O | + | Flowering |
| <i>Populus pruinosa</i> | tree | 5-6 m | O | 1 | flowering |
| <i>Silene conica</i> | annual | 15-20 | O | + | flowering |
| <i>Sisymbrium altissimum</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Sophora pachycarpa</i> | perennial | 20-25 | O | + | vegetation |
| <i>Strigosella africana</i> | annual | 20-25 | O | + | Flowering, fruiting |
| <i>Tamarix hohenackeri</i> | shrub | 150-180 | F | 2 | flowering |
| <i>Tamarix ramosissima</i> | shrub | 150-180 | F | 2 | vegetation |
| <i>Torilis arvensis</i> | annual | 25-30 | O | + | Flowering, fruiting |
| <i>Tribulus terrestris</i> | annual | 10-15 | O | + | Flowering |
| <i>Trigonella grandiflora</i> | annual | 15-20 | O | + | Flowering, fruiting |
| <i>Tripidium ravennae</i> (<i>Erianthus ravennae</i>) | perennial | 200-220 | R | + | vegetation |
| <i>Typha angustifolia</i> | perennial | 100-150 | O | + | vegetation |
| <i>Verbascum blattaria</i> | biennial | 30-40 | R | + | Flowering |
| <i>Veronica polita</i> | annual | 10-12 | O | + | Flowering, fruiting |
| <i>Xanthium spinosum</i> | annual | 25-30 | O | + | vegetation |
| <i>Xanthium orientale</i> | annual | 15-20 | O | + | vegetation |

Table 40. Check-list of plants recorded on sample plot 37-2024 (40.98328° N, 69.07634° E), 360 km OTHL, Quyi Chirchiq District of Tashkent Region, 3 km to the south of SS Khalka, banks of canal, woodland belts, roadsides and boundary-strips between irrigated arable lands

| Species | Life form | Height, cm | Abundance | | Phenol. Stage |
|--|------------------|------------|-----------|----------------|---------------------|
| | | | DACFOR | Braun-Blanquet | |
| <i>Aeluropus litoralis</i> | perennial | 10-15 | O | + | vegetation |
| <i>Alhagi pseudalhagi</i> | perennial | 30-40 | F | 1 | vegetation |
| <i>Bolboschoenus glaucus</i> | perennial | 40-50 | R | + | flowering |
| <i>Bromus scoparius</i> | annual | 20-25 | F | 1 | flowering |
| <i>Bromus tectorum</i> | Annual | 20-25 | O | + | flowering |
| <i>Capparis spinosa</i> | perennial | 30-40 | R | + | vegetation |
| <i>Capsella bursa-pastoris</i> | annual | 20-30 | F | 1 | Flowering, fruiting |
| <i>Carthamus lanatus</i> subsp. <i>turkestanicus</i> | annual | 25-30 | F | 1 | vegetation |
| <i>Centaurea iberica</i> | biennial | 20-30 | F | 1 | vegetation |
| <i>Cichorium intybus</i> | perennial | 20-30 | R | + | vegetation |
| <i>Cirsium vulgare</i> | biennial | 40-50 | F | 1 | vegetation |
| <i>Clematis orientalis</i> | Perennial, liana | 100-150 | R | + | vegetation |
| <i>Convolvulus arvensis</i> | Perennial, liana | 10-15 | O | + | flowering |
| <i>Cynanchum acutum</i> ssp. <i>sibiricum</i> | Perennial, liana | 100-150 | O | + | vegetation |
| <i>Cynodon dactylon</i> | perennial | 15-20 | C | 2 | vegetation |
| <i>Descurainia sophia</i> | annual | 30-40 | O | + | Flowering, fruiting |

| | | | | | |
|--|---------------------|---------|---|---|------------------------|
| <i>Dodartia orientalis</i> | perennial | 30-40 | O | + | flowering |
| <i>Elaeagnus angustifolia</i> | tree | 250-300 | R | + | flowering |
| <i>Elymus repens</i> | perennial | 50-50 | O | + | vegetation |
| <i>Epilobium hirsutum</i> | perennial | 30-40 | O | + | vegetation |
| <i>Equisetum arvense</i> | perennial | 20-30 | O | + | vegetation |
| <i>Erodium cicutarium</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Euphorbia helioscopia</i> | annual | 15-20 | O | + | Flowering, fruiting |
| <i>Fallopia convolvulus</i> | Annual, liana | 100-150 | R | + | vegetation |
| <i>Galium aparine</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Galium spurium</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Geranium dissectum</i> | annual | 15-20 | O | + | Flowering, fruiting |
| <i>Geranium pusillum</i> | annual | 15-20 | O | + | Flowering |
| <i>Glycyrrhiza glabra</i> | perennial | 40-50 | O | + | vegetation |
| <i>Holosteum umbellatum</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Hordeum murinum</i> subsp. <i>leporinum</i> (<i>Hordeum leporinum</i>) | annual | 25-35 | A | 2 | flowering |
| <i>Hordeum spontaneum</i> | annual | 50-70 | F | 1 | flowering |
| <i>Karelinia caspia</i> | perennial | 50-70 | O | + | vegetation |
| <i>Lactuca serriola</i> | annual, biennial | 30-40 | O | + | vegetation |
| <i>Lamium amplexicaule</i> | annual | 10-15 | O | + | Flowering, fruiting |
| <i>Lepidium draba</i> | perennial | 25-30 | F | 1 | Flowering, fruiting |
| <i>Malus domestica</i> | tree | 250-300 | R | 1 | vegetation |
| <i>Medicago sativa</i> | perennial | 30-40 | R | + | vegetation |
| <i>Mentha longifolia</i> var. <i>asiatica</i> | perennial | 30-40 | O | + | vegetation |
| <i>Morus alba</i> | tree | 250-300 | O | 1 | vegetation |
| <i>Onopordum acanthium</i> | biennial | 30-40 | O | + | vegetation |
| <i>Papaver pavoninum</i> | annual | 15-20 | O | + | flowering |
| <i>Peganum harmala</i> | perennial | 25-35 | R | + | flowering |
| <i>Phragmites australis</i> | perennial | 70-100 | O | 1 | vegetation |
| <i>Plantago lanceolata</i> | perennial | 15-25 | F | + | Flowering |
| <i>Plantago major</i> | perennial | 15-25 | O | + | Flowering |
| <i>Poa bulbosa</i> | perennial | 25-30 | A | 1 | fruiting |
| <i>Poacynum lancifolium</i> (<i>Trachomitum lancifolium</i>) | perennial | 100-150 | R | + | flowering |
| <i>Polygonum argyrocoleon</i> | annual | 25-30 | O | + | Flowering, fruiting |
| <i>Populus afghanica</i> | tree | 6-7 m | O | 2 | vegetation |
| <i>Sisymbrium altissimum</i> | annual | 30-40 | F | 1 | Flowering, fruiting |
| <i>Sophora pachycarpa</i> | perennial | 20-25 | O | + | vegetation |
| <i>Tamarix hohenackeri</i> | shrub | 150-180 | R | + | flowering |
| <i>Torilis arvensis</i> | annual | 25-30 | O | + | Flowering, fruiting |
| <i>Typha angustifolia</i> | perennial | 100-150 | O | + | vegetation |
| <i>Typha laxmannii</i> | perennial | 100-150 | O | + | vegetation |
| <i>Ulmus pumila</i> | tree | 5-6 m | O | 2 | Flowering |

| | | | | | |
|----------------------|--------|-------|---|---|------------------------|
| Veronica hederifolia | annual | 10-12 | F | 1 | Flowering, fruiting |
| Veronica polita | annual | 10-12 | O | + | Flowering, fruiting |
| Veronica persica | annual | 10-12 | F | 1 | Flowering, fruiting |
| Xanthium spinosum | annual | 25-30 | O | + | vegetation |
| Xanthium orientale | annual | 15-20 | O | + | vegetation |



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REPTILE REPORT (Summer 2023 & Spring 2024)

**Environmental and Social Impact Assessment (ESIA) for the
development of a solar power project in Samarkand Region,
Uzbekistan**

5 Capitals Environmental and Management Consulting



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1. Introduction

In accordance with the Resolutions of the President of the Republic of Uzbekistan No. PP-207 dated July 4, 2023, "On measures for the implementation of the investment project 'Construction of a 500 MW Solar Photovoltaic Power Station, a 334 MW Electric Energy Storage System, and a Substation to support its operation in the Nurabad District of the Samarkand Region - Sazagan Solar 1,'" and No. PP-208 dated July 4, 2023, "On measures for the implementation of the investment project 'Construction of a 500 MW Solar Photovoltaic Power Station, a 334 MW Electric Energy Storage System, and a Substation to support its operation in the Nurabad District of the Samarkand Region - Sazagan Solar 2,'" investment agreements were signed on April 19, 2023, between the Ministry of Investments, Industry, and Trade of the Republic of Uzbekistan, the company "ACWA Power Company" (Investor), and the companies "ACWA Power Sazagan Solar 1" and "ACWA Power Sazagan Solar 2" (hereinafter referred to as the "Project Companies") (Figure 1).

Under the aforementioned investment agreements, the Project Companies are implementing the projects "Sazagan Solar 1" and "Sazagan Solar 2," within which three solar photovoltaic power stations with a total capacity of 1000 MW and a substation with a capacity of 500/220 kV will be constructed in the Nurabad District of the Samarkand Region. Additionally, two energy storage systems will be built - one in the Nurabad District of the Samarkand Region and another in the Karakul District of the Bukhara Region. Furthermore, two parallel overhead power transmission lines with a voltage of 220 kV and a length of 70 km will be constructed to connect the main project facilities. 360 km overhead transmission line will also connect stations located in Samarkand region with the Khalka substation, located in Tashkent region.

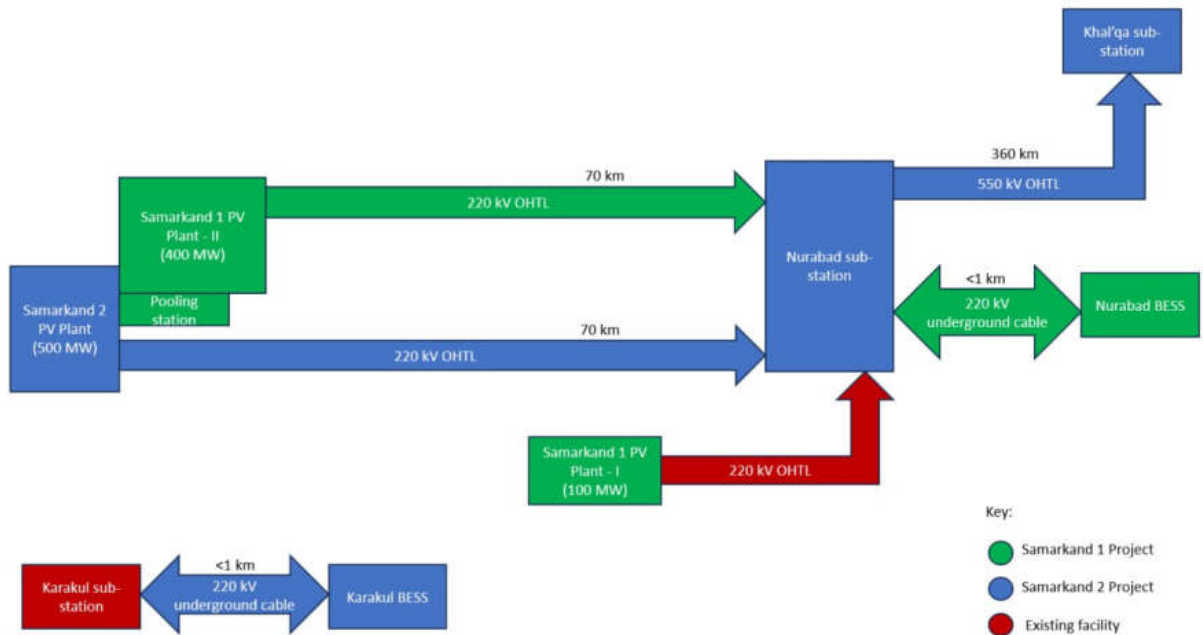


Figure 1: The project scheme

The report presents data and materials of field and desktop herpetofauna survey conducted in June 2023 and April 2024

2. Study Area Description

The research zone encompasses sections of Quyi Chirchiq District in the Tashkent Region, as well as Syrdarya, Mirzaabad, Akaltyn, and Sardoba Districts in the Syrdarya Region. It also includes Dustlik, Pakhtakor, Sharaf-Rashidov, and Gallaaral Districts in the Dzhizak (Jizzakh) Region, along with Bulungur, Jomboy, Payariq, Akdarya, Pastdargom, and Nurabad Districts in the Samarkand Region, as well as Karakul District in the Bukhara Region (Figure 2).



Figure 2: UZB-ACWA-Samarkand Solar 1 and Solar 2 & OHTL ESIA Project area

Project consists of the following parts:

- 1) Khalka substation and 360 km 550 kV OHTL
- 2) Nurabad substation and access road 5320 m
- 3) Nurabad BESS
- 4) Solar 100 MW PV plant and access road 70 m
- 5) Solar 400 MW PV plant, pooling station and access road 696 m
- 6) Solar 500 MW PV plant
- 7) Karakul BESS and access road
- 8) 70km OHTL (Nurabad SS – Pooling station)
- 9) LILO 11 km
- 10) LILO 19 km

2.1 Khalka substation and 360 km 550 kV OHTL

The Khalka substation is located approximately 21 km south of Tashkent city (Figure 3) 21 kilometers south of Dustobod town (formerly known as Soldatsky and the center of the Quyi Chirchiq District), roughly 2.5 kilometers east of Mevazor village (formerly known as Rozhdestvensky), and about 3.5 kilometers east of the Chirchiq River. The Khalka substation area falls within the Chinaz region of the Middle Syrdarya district in the Turan province.

The overhead transmission line 360km (OHTL) (Figure 3) traverses through the Quyi Chirchiq District in the Tashkent Region, as well as the Syrdarya, Mirzaabad, Akaltyn, and Sardoba Districts within the Syrdarya Region. It also extends through Dustlik, Pakhtakor, Sharaf-Rashidov, and Gallaaral Districts

in the Jizzakh (Dzhizak) Region, and continues through Bulungur, Jomboy, Payariq, Akdarya, Pastdargom, and Nurabad Districts in the Samarkand Region.



Figure 3: Khalka substation and 360 km 550 kV OHTL

2.2 Nurabad substation and access road, Nurabad BESS, Solar 100 MW PV plant, Solar 400 MW PV plant and pooling station, Solar 500 MW PV plant, Nurabad SS – Pooling station – 70km OHTL

These Project areas are situated in the Samarkand Region which is situated in the central part of Uzbekistan, within the Zeravshan River basin, specifically in its central portion. This region covers an area of approximately 16.77 thousand km², is home to around 4.1 million residents, and boasts an average population density of 245.6 individuals per km². Geographically, the region comprises both flat and mountainous terrain. The plains are found at the heart of the region (in the Zeravshan valley) and in the southwest (the foothill plains of the Zeravshan Range, including Karnabchul).

To the north, the Zeravshan valley is bounded by the Nuratau mountains, while the southern boundary includes the Zeravshan Range and its western extensions, the Zirabulak-Ziadin mountains. The Samarkand oasis, located in the middle stretches of the Zeravshan River, stands as one of Central Asia's oldest agricultural oases, featuring highly valuable agricultural lands and some of Uzbekistan's most fertile soils.

Presently, nearly the entire Zeravshan valley has been transformed into a human-altered landscape, with only small remnants of floodplain ecosystems remaining. The Karnabchul landscape (western foothill plain) and the northern foothill plain of the Zeravshan Range and Nuratau Mountains are characterized by a semidesert environment with mostly flat or slightly sloped, undulating, or gently hilly terrain, interspersed with dry riverbeds from seasonal streams.



Figure 4: 500/220 KV Nurabad substation



Figure 5: Nurabad 500 MW Bess.



Figure 6: Solar 100 MW PV plant

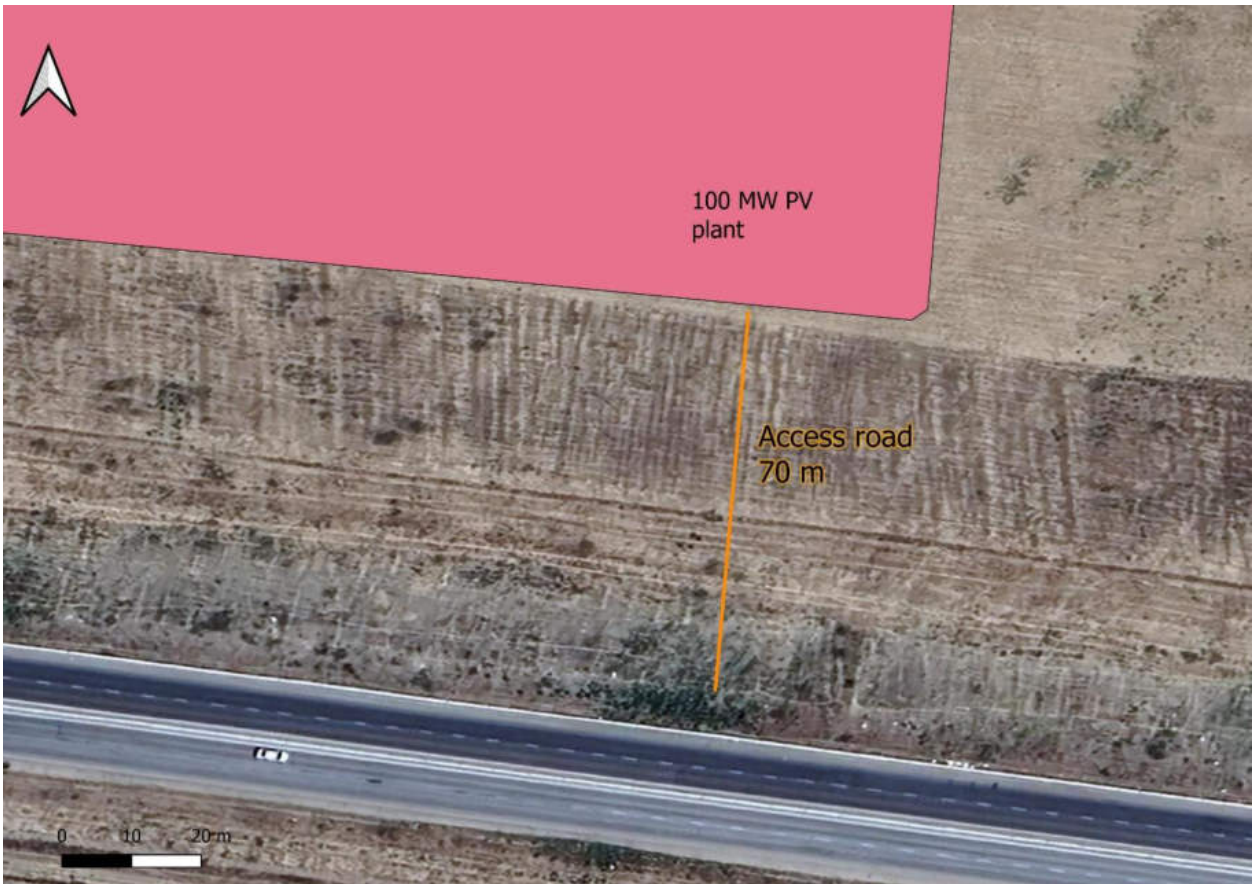


Figure 7: Access road 70 m

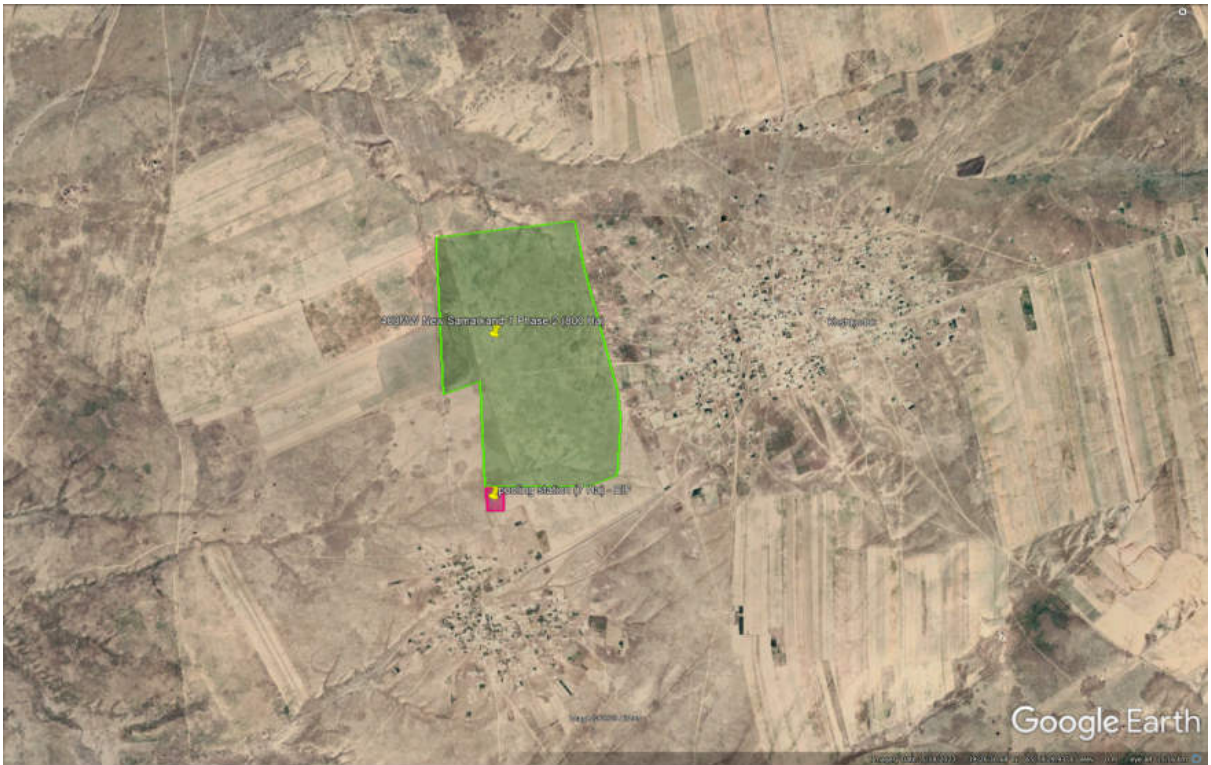


Figure 8: Solar 400 MW PV plant and Pooling station

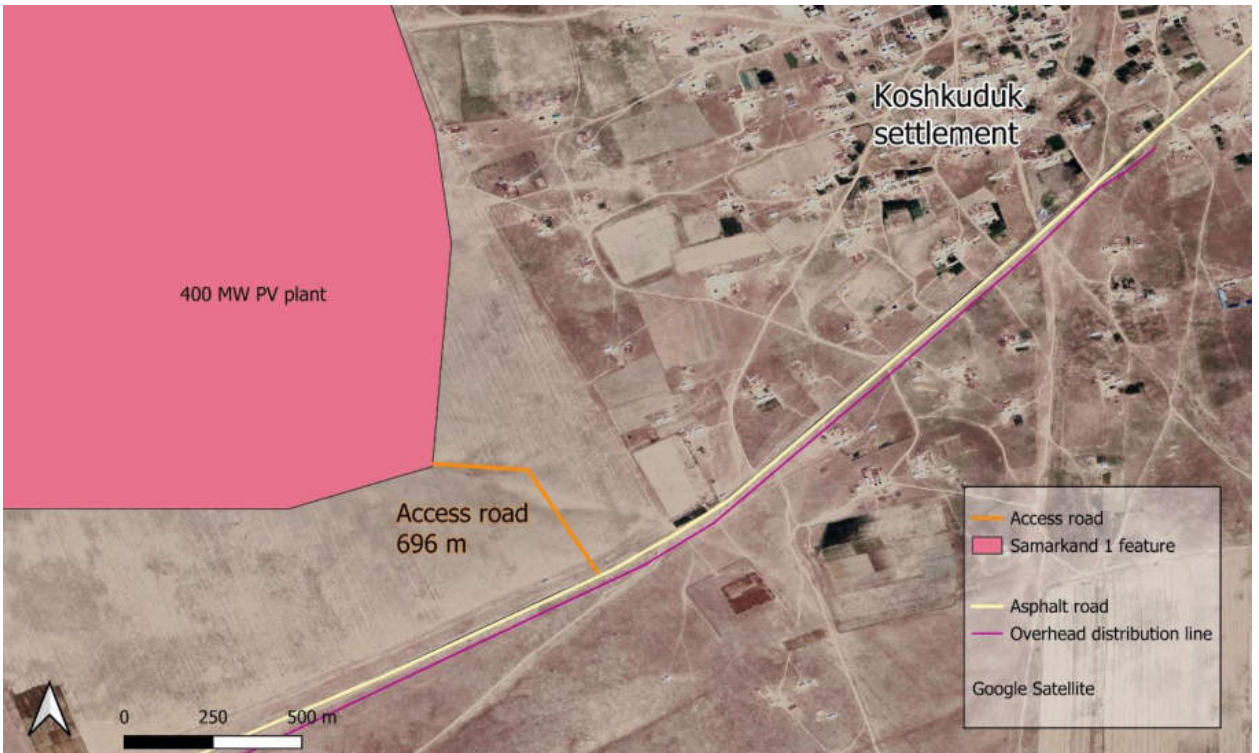


Figure 9: Access road 696 m



Figure 10: Solar 500 MW PV plant



Figure 11: Nurabad SS – Pooling station – 70 km OHTL

2.3 Karakul BESS, underground cable and access road

Karakul substation area belongs to Lower Zeravschan region of Bukhara district of Turan province. The project area includes a landfill for BESS with an area of 32.4 hectares and an access road 1735 m long.

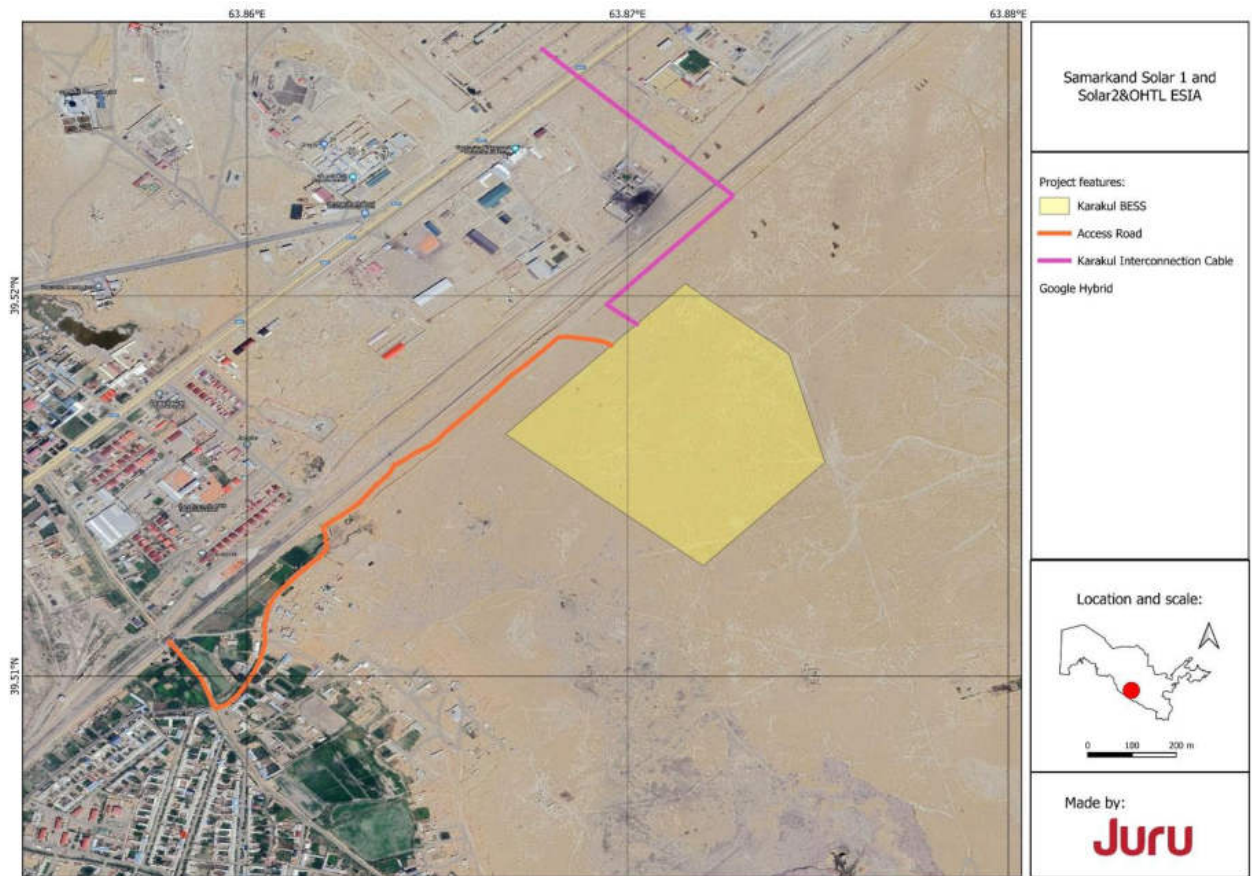


Figure 12: Karakul BESS

The polygon is a plain composed of sandy and sandy loam soils, with sparse shrub vegetation (Figure 13). From the point of view of economic use, the territory of the landfill is a wasteland with a garbage dump in the eastern part. Presumably, due to the burning of waste in the landfill with rising warm currents, plastic bags are occasionally lifted into the air and deposited in the project area (Figure 14).



Figure 13: Karakul BESS site

In addition to plastic bags, various household garbage and animal carcasses (cattle bones) are scattered throughout the area (Figure 15, Figure 16).



Figure 15: Cattle bones



Figure 16: Household garbage

2.4 LILO 11 km, LILO 19 km



Figure 17: Red line - LILO 11 km, purple line - LILO 19 km, polygon - Nurabad substation.

These habitats represent highly human-modified landscapes. Most of the territory is occupied by agricultural fields, dissected by fences.



Figure 18: The overview of the arable lands along planned LILO11 km

Proposed LILO 11 km crosses two small temporary streams originating from the mountains and significantly increasing their flow during the spring period. Heavy machinery operates on both watercourses, and the riverbeds have been artificially altered and heavily degraded.



Figure 19: The overview of stream and its riverbed



Figure 20: Arable land

3. Materials and methods

During the field survey an attempt was made to assess the status of reptiles and amphibians in the study area (specification of the species and quantitative composition, territorial distribution, including

places of concentration, the state of habitats). However, it should be noted that, the combination of field survey and desktop analysis was used.

Field studies were carried out according to generally accepted zoological methods for identifying species composition. The following methodological guidelines were used in the survey: L. G. Dinesman, M. L. Kaletskaya (1952)¹, V. M. Makeev, A. T. Bozhansky (1988)², D.A. Bondarenko, N.G. Chelintsev (1996)³. Literature sources and statistical data had been processed.

The main research method used was mixed stationary and transect survey. Points and transects for conducting research were outlined at the project monitoring stations in accordance with different types of habitats.

The field research methodology reflects the following aspects:

- 1) species composition in the study area;
- 2) distribution across habitats.

Thus, the method of quantitative assessment was based on the ecology of the species under consideration, landscape and geographical conditions, season and type of work.

The quantitative assessment of reptiles and amphibians was mainly based on the transect survey. The transect method consists in counting individuals along a fixed long line (transect), on both sides of it, with the duration of the survey determined by the known distance, which is selected depending on the type of reptile and the area, but does not exceed 1 km in one way. In this case, all individuals encountered on the transect are registered, regardless of the distance they are identified at. The perpendicular distance is measured between the transect axis and each individual. The results obtained are used to calculate the density of recorded reptiles. The 1 km transect was chosen because heaviest errors arise when long transects are used for species that, like the Central Asian Tortoise, have high density, daily and seasonal activity cycles fluctuations with high peak values, and are caused by incorrect selection of a minimum survey area for a particular species (Vashetko et al, 2001).

The Central Asian tortoise population density (D) was calculated using the following formula:

$$D = \frac{n}{2LB}$$

where n – number of animal individuals recorded on the transect; L – length of the transect; B – formula to calculate an effective width of the survey strip:

$$B = W(0,79F + 0,21F^4)$$

where W – width of the limited strip on both sides of the transect axis; F :

$$F = \frac{2y}{W}$$

The use of perpendicular distances to carry out survey on a strip of limited width excludes underestimation of the population density of the Central Asian tortoise caused by a decrease in their detectability in remote parts of the survey strip, regardless of the degree of its limitation.

The abundance of the reptiles in habitats was estimated using the following population density scale for 1 ha (Kuzyakin, 1962⁴): 0.1 – 0.9 – rare, 1.0 – 9.9 – common, 10.0 and higher – abundant.

¹ Dinesman L.T., Kaletskaya M.L. Methods of counting the number and geographical distribution of terrestrial vertebrates. Moscow: AN USSR, 1952 [in Russian]

² Makeev V.M., Bozhansky A.T., (1988). Some results herpetological inspections East Turkmenistan /Rare and little-studied animals of Turkmenistan. Ashgabat. Ylym. (in Russian).

³ Bondarenko D.A., Chelintsev N.G. 1996. A comparative estimation of different methods of the line transect census of desert reptiles. Bulletin of Moscow Society of Naturalists, Biological series, 1996, vol.101, iss.3., pp. 26-35 (in Russian)

⁴ Kuzyakin A.P. 1962. Zoogeography of the USSR. Scientific notes of the Moscow regional pedagogical institute. 109: 9-182 pp.

Data presented in this report based on surveys conducted in June and September 2023 (main and associated facilities), and March 2024 (Karakul BESS, LILO 11, access roads) and April 2024 (main facilities), May 2024 (.

3. Survey points and transects

3.1 Nurabad Substation and access road 5320 m, Nurabad Bess, Solar 100 MW PV

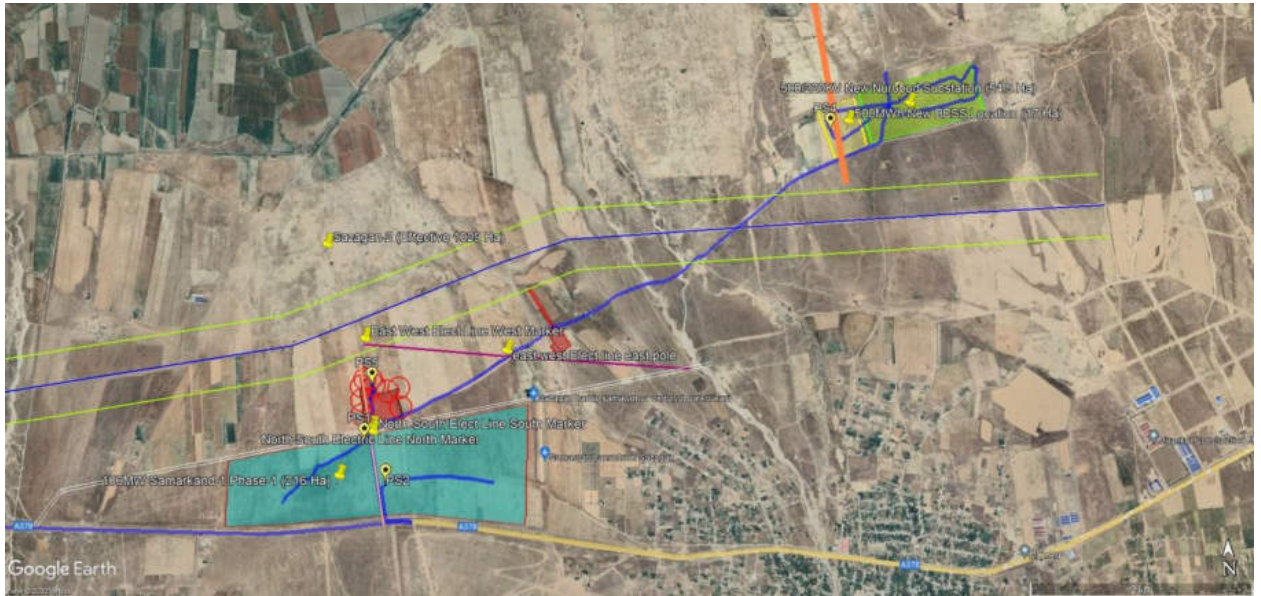


Figure 21: Survey map including survey points and transects on Nurabad Substation, Nurabad Bess, Solar 100 MW PV (June 2023).



Figure 22: Survey map including survey points and transects on Nurabad Substation, Nurabad BESS (March 2024).



Figure 23: Access Road 5320 m. Orange line – access road, brown line – track 5.04.2024, violet polygon – Nurabad substation (March 2024).

Table 1: Survey points on Nurabad Substation, Nurabad Bess, Solar 100 MW PV (June 2023)

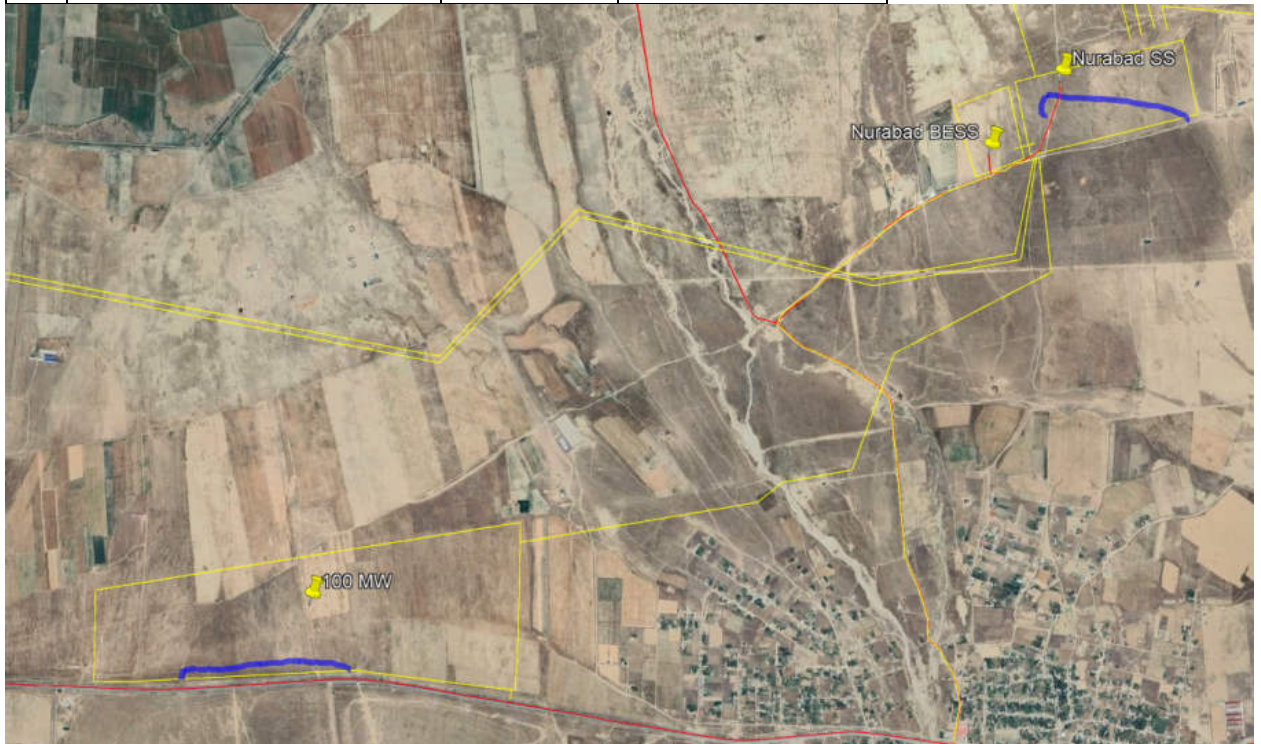
| No | Name of point | Date and time | N (dd format) | E (dd format) | Biotope | t air °C | t soil, °C | humidity, % |
|----|---------------|---------------|---------------|---------------|---------------------|----------|------------|-------------|
| 1 | PS-1 | 28/06/23 | 39.549109° | 66.685559° | Deposited lands | 34,3 | 37,2 | 22 |
| 2 | PS-2 | 28/06/23 | 39.545677° | 66.687853° | Deposited lands | 34,7 | 40,3 | 21 |
| 3 | PS-3 | 28/06/23 | 39.576767° | 66.744959° | Deposited lands | 34,9 | 42,8 | 21 |
| 4 | PS-4 | 28/06/23 | 39.574226° | 66.737152° | Agricultural fields | 35,3 | 44,6 | 20 |
| 5 | PS-5 | 28/06/23 | 39.553687° | 66.686383° | Agricultural fields | 35,6 | 47,2 | 20 |

Table 2: Survey transect on Nurabad Substation, Nurabad Bess, Solar 100 MW PV (June 2023).

| No | Name of transect | Date and time | Length | Biotope | t air °C | t soil, °C | humidity, % |
|----|------------------|---------------|--------|---------------------|----------|------------|-------------|
| 1 | PS-1 | 28/06/23 | 1 km | Deposited lands | 34,3 | 37,2 | 22 |
| 2 | PS-2 | 28/06/23 | 1 km | Deposited lands | 34,7 | 40,3 | 21 |
| 3 | PS-3 | 28/06/23 | 2 km | Deposited lands | 34,9 | 42,8 | 21 |
| 4 | PS-4 | 28/06/23 | 1 km | Agricultural fields | 35,3 | 44,6 | 20 |
| 5 | PS-5 | 28/06/23 | 1 km | Agricultural fields | 35,6 | 47,2 | 20 |

Table 3: Point counts on Nurabad Substation, Nurabad Bess (March 2024).

| No | Point | Date and time | Biotope |
|----|--------------|---------------|-----------------|
| 1 | Nurobod BESS | 11/03/24 | Deposited lands |
| 2 | Nurobod SS | 11/03/24 | Deposited lands |



| No | Name of transect | Date and time | Begin of transect N, E (dd format) | End of transect N, E (dd format) | Length, km | Biotope |
|----|-------------------------------------|---------------|------------------------------------|----------------------------------|------------|-------------|
| 1 | 100 MW_2024-05-14 15:50_1.2km | 14/05/2024 | 39.543198 66.690427 | 39.542679 66.677598 | 1.2 | Fallow land |
| 2 | Nurabad SS_ 2024-05-14 15:22_1.12km | 14/05/2024 | 39.575297 66.742706 | 39.575114 66.753605 | 1.12 | Fallow land |

Table 4: Transect counts on Nurabad Substation, Nurabad Bess and Solar 100 MW (14 May 2024).3.2 Solar 400 MW PV and access road 696 m, Solar 500 MW PV and pooling station



Figure 24: Survey map including survey points and transects on Solar 400 MW PV, Solar 500 MW PV and pooling station (June 2023).

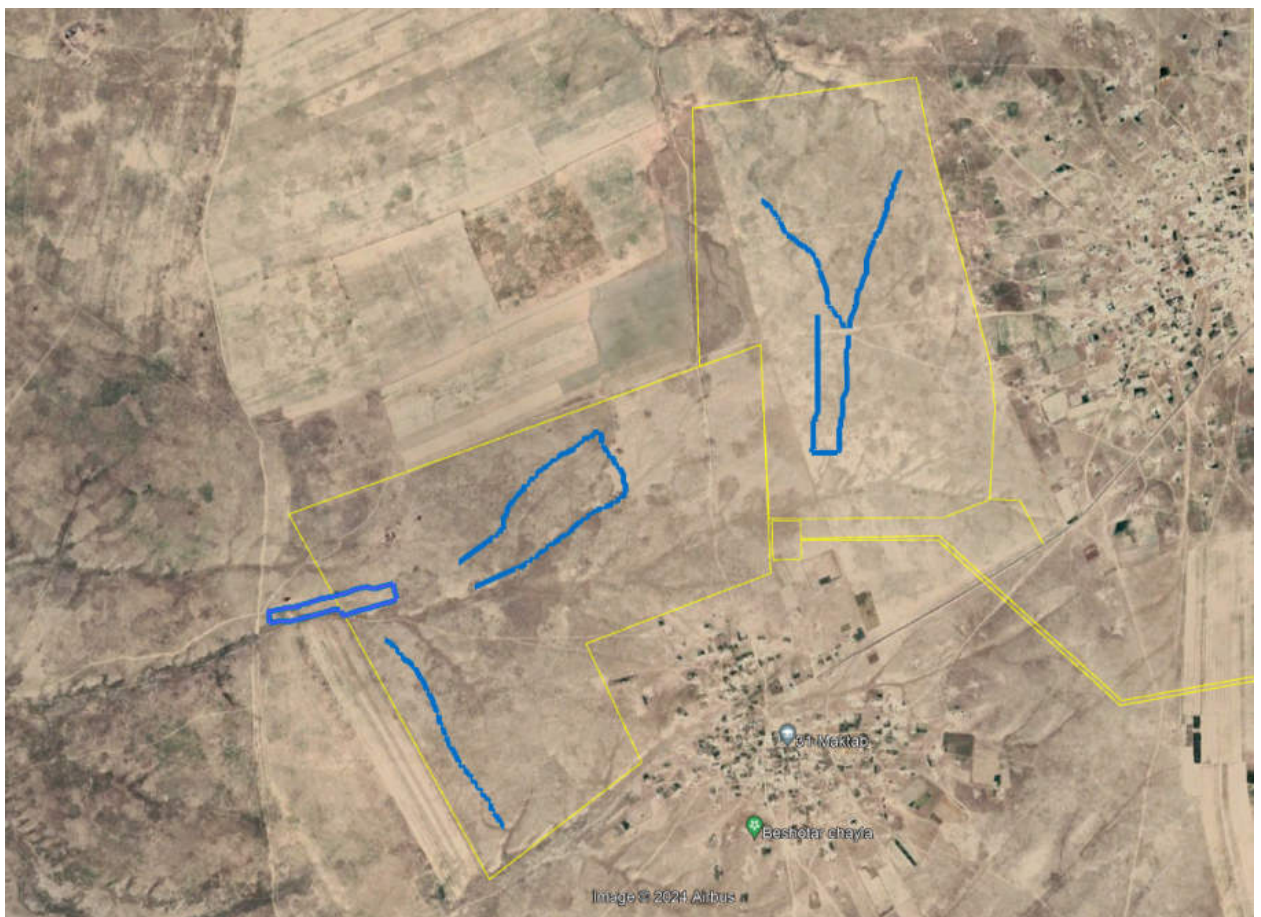


Figure 25: Survey map including survey points and transects on Solar 400 MW PV, Solar 500 MW PV and pooling station (April 2024).

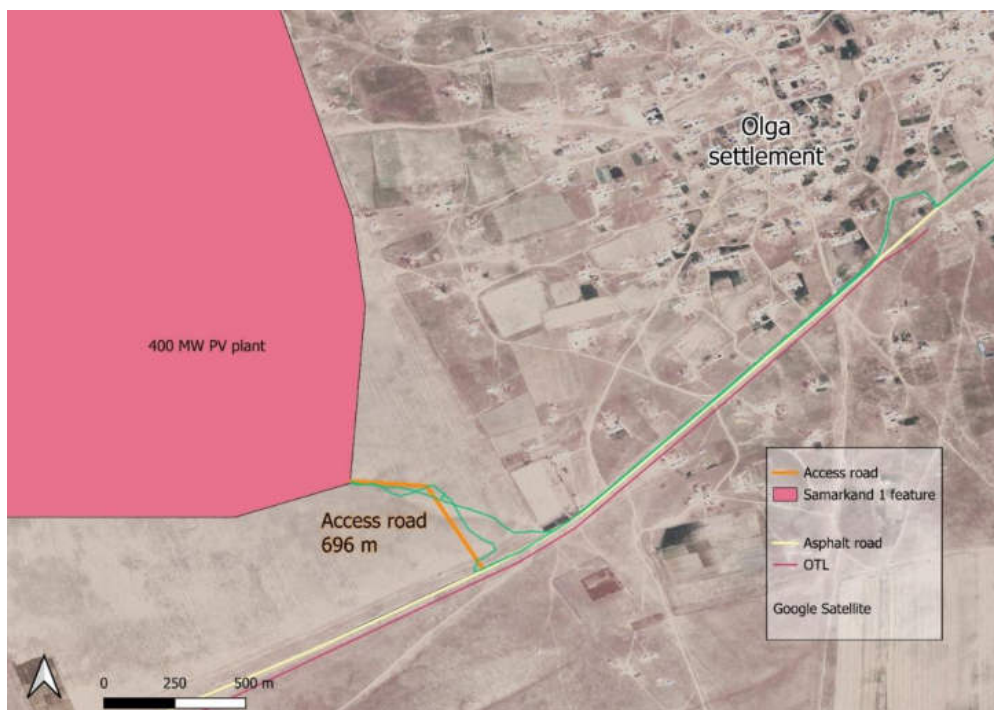


Figure 26: Survey map of the access road (March 2024)

Table 5: Survey points on Solar 400 MW PV, Solar 500 MW PV and pooling station.

| No | Name of point | Date and time | N (dd format) | E(dd format) | Biotope | t air °C | t soil, °C | humidity, % |
|----|---------------|---------------|---------------|--------------|---------------------|----------|------------|-------------|
| 1 | P-1 | 27/06/23 | 39.443530° | 65.977999° | Deposited lands | 33,7 | 41,4 | 21 |
| 2 | P-2 | 27/06/23 | 39.444009° | 65.987181° | Deposited lands | 33,5 | 40,6 | 21 |
| 3 | P-3 | 27/06/23 | 39.426815° | 65.966046° | Gravelly-clay plain | 33,4 | 41,7 | 21 |
| 4 | P-4 | 27/06/23 | 39.427411° | 65.933010° | Gravelly-clay plain | 31,2 | 38,6 | 22 |
| 5 | P-5 | 27/06/23 | 39.419400° | 65.944827° | Gravelly-clay plain | 30,8 | 37,3 | 22 |

Table 6: Survey transect on Solar 400 MW PV, Solar 500 MW PV and pooling station (June 2023).

| No | Name of transect | Date and time | Length | Biotope | t air °C | t soil, °C | humidity, % |
|----|------------------|---------------|--------|---------------------|----------|------------|-------------|
| 1 | P-1 | 27/06/23 | 5 km | Deposited lands | 34,7 | 46,4 | 20 |
| 2 | P-2 | 27/06/23 | 3,6 km | Deposited lands | 33,5 | 40,6 | 21 |
| 3 | P-3 | 27/06/23 | 2 km | Gravelly-clay plain | 33,4 | 41,7 | 21 |
| 4 | P-4 | 27/06/23 | 2,6 km | Gravelly-clay plain | 31,2 | 38,6 | 22 |
| 5 | P-5 | 27/06/23 | 4 km | Gravelly-clay plain | 30,8 | 37,3 | 22 |